



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-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-85L-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	84987
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	30191
Beam Efficiency	N.A.
Field Lumens	71493
Field Efficiency	N.A.
Spill Lumens	7305
Luminaire Lumens	78797
Total Efficiency	N.A.
Total Luminaire Watts	576
Ballast Factor	1.00

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	123	85	121
75	803	75	818
65	2265	65	2296
55	7518	55	7578
47.5	12937	47.5	13013
42.5	16930	42.5	16990
37.5	20721	37.5	20694
33	24668	33	24707
29	29033	29	29133
25.5	34572	25.5	35142
22.5	42061	22.5	42589
19.5	51553	19.5	51664
17	59045	17	59124
15	64619	15	64718
13	69517	13	69704
11	73907	11	74063
9	77821	9	77784
7	81119	7	80859
5	83493	5	83282
3	84683	3	84678
1	84969	1	84987
0	84961	0	84961
-1	84969	-1	84987
-3	84683	-3	84678
-5	83493	-5	83282
-7	81119	-7	80859
-9	77821	-9	77784
-11	73907	-11	74063
-13	69517	-13	69704
-15	64619	-15	64718
-17	59045	-17	59124
-19.5	51553	-19.5	51664
-22.5	42061	-22.5	42589
-25.5	34572	-25.5	35142
-29	29033	-29	29133
-33	24668	-33	24707
-37.5	20721	-37.5	20694
-42.5	16930	-42.5	16990
-47.5	12937	-47.5	13013
-55	7518	-55	7578
-65	2265	-65	2296
-75	803	-75	818
-85	123	-85	121
-90	0	-90	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

CANDELA TABULATION

Maximum Candela = 84987

Beam Edge = 42493.5 Cd (50% of Max.)

Field Edge = 8498.7 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	7	21	33	51	70	80	89	97	102
75.0	0	20	85	186	312	407	476	541	594	644
65.0	0	33	184	423	727	980	1163	1343	1505	1640
55.0	0	51	306	723	1283	1818	2257	2971	3798	4552
47.5	0	68	403	978	1817	3030	4382	5926	7200	8376
42.5	0	78	474	1158	2268	4404	6210	8067	9776 *	11249 *
37.5	0	88	537	1336	3003	5966	8093	10379 *	12451 *	14179 *
33.0	0	96	589	1503	3810	7246	9772 *	12400 *	14731 *	16825 *
29.0	0	102	638	1645	4523	8381	11219 *	14104 *	16788 *	18902 *
25.5	0	106	676	1766	5158	9308 *	12396 *	15542 *	18288 *	20483 *
22.5	0	110	705	1862	5644	10089 *	13328 *	16730 *	19455 *	21963 *
19.5	0	113	731	1962	6087	10793 *	14193 *	17690 *	20535 *	23385 *
17.0	0	116	749	2035	6420	11318 *	14843 *	18372 *	21439 *	24489 *
15.0	0	117	762	2086	6656	11676 *	15324 *	18861 *	22099 *	25310 *
13.0	0	119	773	2131	6864	11992 *	15736 *	19316 *	22671 *	26106 *
11.0	0	123	782	2170	7043	12264 *	16084 *	19711 *	23184 *	26797 *
9.0	0	123	790	2202	7193	12492 *	16377 *	20042 *	23635 *	27376 *
7.0	0	123	796	2228	7315	12673 *	16614 *	20308 *	24010 *	27924 *
5.0	0	123	805	2246	7411	12808 *	16791 *	20507 *	24293 *	28402 *
3.0	0	123	804	2266	7510	12950 *	16967 *	20641 *	24487 *	28733 *
1.0	0	123	803	2265	7515	12941 *	16942 *	20720 *	24631 *	28972 *
0.0	0	123	803	2265	7518	12937 *	16930 *	20721 *	24668 *	29033 *
-1.0	0	123	803	2265	7515	12941 *	16942 *	20720 *	24631 *	28972 *
-3.0	0	123	804	2266	7510	12950 *	16967 *	20641 *	24487 *	28733 *
-5.0	0	123	805	2246	7411	12808 *	16791 *	20507 *	24293 *	28402 *
-7.0	0	123	796	2228	7315	12673 *	16614 *	20308 *	24010 *	27924 *
-9.0	0	123	790	2202	7193	12492 *	16377 *	20042 *	23635 *	27376 *
-11.0	0	123	782	2170	7043	12264 *	16084 *	19711 *	23184 *	26797 *
-13.0	0	119	773	2131	6864	11992 *	15736 *	19316 *	22671 *	26106 *
-15.0	0	117	762	2086	6656	11676 *	15324 *	18861 *	22099 *	25310 *
-17.0	0	116	749	2035	6420	11318 *	14843 *	18372 *	21439 *	24489 *
-19.5	0	113	731	1962	6087	10793 *	14193 *	17690 *	20535 *	23385 *
-22.5	0	110	705	1862	5644	10089 *	13328 *	16730 *	19455 *	21963 *
-25.5	0	106	676	1766	5158	9308 *	12396 *	15542 *	18288 *	20483 *
-29.0	0	102	638	1645	4523	8381	11219 *	14104 *	16788 *	18902 *
-33.0	0	96	589	1503	3810	7246	9772 *	12400 *	14731 *	16825 *
-37.5	0	88	537	1336	3003	5966	8093	10379 *	12451 *	14179 *
-42.5	0	78	474	1158	2268	4404	6210	8067	9776 *	11249 *
-47.5	0	68	403	978	1817	3030	4382	5926	7200	8376
-55.0	0	51	306	723	1283	1818	2257	2971	3798	4552
-65.0	0	33	184	423	727	980	1163	1343	1505	1640
-75.0	0	20	85	186	312	407	476	541	594	644
-85.0	0	7	21	33	51	70	80	89	97	102
-90.0	0	0	0	0	0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

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	107	111	114	117	119	121	125	125	125	125
75.0	683	712	737	756	769	780	789	796	802	811
65.0	1756	1855	1963	2042	2097	2146	2188	2223	2251	2273
55.0	5201	5702	6144	6473	6707	6915	7095	7244	7364	7453
47.5	9333 *	10105 *	10794 *	11307 *	11681 *	12016 *	12310 *	12559 *	12761 *	12914 *
42.5	12419 *	13354 *	14201 *	14813 *	15303 *	15747 *	16135 *	16450 *	16700 *	16891 *
37.5	15621 *	16761 *	17720 *	18424 *	18932 *	19380 *	19770 *	20100 *	20377 *	20587 *
33.0	18332 *	19524 *	20617 *	21495 *	22142 *	22720 *	23258 *	23726 *	24112 *	24411 *
29.0	20516 *	21967 *	23370 *	24488 *	25329 *	26214 *	26957 *	27558 *	28106 *	28616 *
25.5	22499 *	24209 *	25971 *	27465 *	28733 *	29963 *	31050 *	32243 *	33273 *	34067 *
22.5	24241 *	26254 *	28442 *	30470 *	32362 *	34303 *	36121 *	38138 *	39734 *	40940 *
19.5	25994 *	28457 *	31277 *	34327 *	37140 *	40171 *	42989 *	45750 *	47892 *	49516 *
17.0	27410 *	30439 *	34364 *	38472 *	42099 *	46007 *	49565 *	52546 *	55050 *	57119 *
15.0	28611 *	32244 *	37157 *	42133 *	46564 *	50815 *	54568 *	57821 *	60379 *	62520 *
13.0	29766 *	34088 *	40104 *	46036 *	50833 *	55315 *	59275 *	62660 *	65394 *	67431 *
11.0	30747 *	35762 *	42823 *	49575 *	54594 *	59267 *	63425 *	66925 *	69755 *	71820 *
9.0	31855 *	37662 *	45560 *	52572 *	57864 *	62592 *	66844 *	70673 *	73415 *	75595 *
7.0	32793 *	39221 *	47834 *	55061 *	60428 *	65374 *	69644 *	73313 *	76527 *	78557 *
5.0	33603 *	40500 *	49611 *	56984 *	62493 *	67465 *	71834 *	75560 *	78555 *	80998 *
3.0	34178 *	41396 *	50755 *	58325 *	63953 *	68972 *	73425 *	77170 *	80323 *	82450 *
1.0	34505 *	41982 *	51396 *	58990 *	64739 *	69566 *	74043 *	77920 *	81095 *	83554 *
0.0	34572 *	42061 *	51553 *	59045 *	64619 *	69517 *	73907 *	77821 *	81119 *	83493 *
-1.0	34505 *	41982 *	51396 *	58990 *	64739 *	69566 *	74043 *	77920 *	81095 *	83554 *
-3.0	34178 *	41396 *	50755 *	58325 *	63953 *	68972 *	73425 *	77170 *	80323 *	82450 *
-5.0	33603 *	40500 *	49611 *	56984 *	62493 *	67465 *	71834 *	75560 *	78555 *	80998 *
-7.0	32793 *	39221 *	47834 *	55061 *	60428 *	65374 *	69644 *	73313 *	76527 *	78557 *
-9.0	31855 *	37662 *	45560 *	52572 *	57864 *	62592 *	66844 *	70673 *	73415 *	75595 *
-11.0	30747 *	35762 *	42823 *	49575 *	54594 *	59267 *	63425 *	66925 *	69755 *	71820 *
-13.0	29766 *	34088 *	40104 *	46036 *	50833 *	55315 *	59275 *	62660 *	65394 *	67431 *
-15.0	28611 *	32244 *	37157 *	42133 *	46564 *	50815 *	54568 *	57821 *	60379 *	62520 *
-17.0	27410 *	30439 *	34364 *	38472 *	42099 *	46007 *	49565 *	52546 *	55050 *	57119 *
-19.5	25994 *	28457 *	31277 *	34327 *	37140 *	40171 *	42989 *	45750 *	47892 *	49516 *
-22.5	24241 *	26254 *	28442 *	30470 *	32362 *	34303 *	36121 *	38138 *	39734 *	40940 *
-25.5	22499 *	24209 *	25971 *	27465 *	28733 *	29963 *	31050 *	32243 *	33273 *	34067 *
-29.0	20516 *	21967 *	23370 *	24488 *	25329 *	26214 *	26957 *	27558 *	28106 *	28616 *
-33.0	18332 *	19524 *	20617 *	21495 *	22142 *	22720 *	23258 *	23726 *	24112 *	24411 *
-37.5	15621 *	16761 *	17720 *	18424 *	18932 *	19380 *	19770 *	20100 *	20377 *	20587 *
-42.5	12419 *	13354 *	14201 *	14813 *	15303 *	15747 *	16135 *	16450 *	16700 *	16891 *
-47.5	9333 *	10105 *	10794 *	11307 *	11681 *	12016 *	12310 *	12559 *	12761 *	12914 *
-55.0	5201	5702	6144	6473	6707	6915	7095	7244	7364	7453
-65.0	1756	1855	1963	2042	2097	2146	2188	2223	2251	2273
-75.0	683	712	737	756	769	780	789	796	802	811
-85.0	107	111	114	117	119	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	123	122	121	122	123	125	125	125	125	121
75.0	814	817	818	817	814	811	802	796	789	780
65.0	2295	2296	2296	2296	2295	2273	2251	2223	2188	2146

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

CANDELA TABULATION - (Cont.)

55.0	7556	7571	7578	7571	7556	7453	7364	7244	7095	6915
47.5	13062 *	13029 *	13013 *	13029 *	13062 *	12914 *	12761 *	12559 *	12310 *	12016 *
42.5	17082 *	17021 *	16990 *	17021 *	17082 *	16891 *	16700 *	16450 *	16135 *	15747 *
37.5	20726 *	20730 *	20694 *	20730 *	20726 *	20587 *	20377 *	20100 *	19770 *	19380 *
33.0	24617 *	24703 *	24707 *	24703 *	24617 *	24411 *	24112 *	23726 *	23258 *	22720 *
29.0	28959 *	29119 *	29133 *	29119 *	28959 *	28616 *	28106 *	27558 *	26957 *	26214 *
25.5	34599 *	34995 *	35142 *	34995 *	34599 *	34067 *	33273 *	32243 *	31050 *	29963 *
22.5	41739 *	42381 *	42589 *	42381 *	41739 *	40940 *	39734 *	38138 *	36121 *	34303 *
19.5	50844 *	51547 *	51664 *	51547 *	50844 *	49516 *	47892 *	45750 *	42989 *	40171 *
17.0	58414 *	59021 *	59124 *	59021 *	58414 *	57119 *	55050 *	52546 *	49565 *	46007 *
15.0	63996 *	64811 *	64718 *	64811 *	63996 *	62520 *	60379 *	57821 *	54568 *	50815 *
13.0	68973 *	69800 *	69704 *	69800 *	68973 *	67431 *	65394 *	62660 *	59275 *	55315 *
11.0	73367 *	74185 *	74063 *	74185 *	73367 *	71820 *	69755 *	66925 *	63425 *	59267 *
9.0	77114 *	77872 *	77784 *	77872 *	77114 *	75595 *	73415 *	70673 *	66844 *	62592 *
7.0	80101 *	80907 *	80859 *	80907 *	80101 *	78557 *	76527 *	73313 *	69644 *	65374 *
5.0	82368 *	83364 *	83282 *	83364 *	82368 *	80998 *	78555 *	75560 *	71834 *	67465 *
3.0	83914 *	84552 *	84678 *	84552 *	83914 *	82450 *	80323 *	77170 *	73425 *	68972 *
1.0	84622 *	84977 *	84987 *	84977 *	84622 *	83554 *	81095 *	77920 *	74043 *	69566 *
0.0	84683 *	84969 *	84961 *	84969 *	84683 *	83493 *	81119 *	77821 *	73907 *	69517 *
-1.0	84622 *	84977 *	84987 *	84977 *	84622 *	83554 *	81095 *	77920 *	74043 *	69566 *
-3.0	83914 *	84552 *	84678 *	84552 *	83914 *	82450 *	80323 *	77170 *	73425 *	68972 *
-5.0	82368 *	83364 *	83282 *	83364 *	82368 *	80998 *	78555 *	75560 *	71834 *	67465 *
-7.0	80101 *	80907 *	80859 *	80907 *	80101 *	78557 *	76527 *	73313 *	69644 *	65374 *
-9.0	77114 *	77872 *	77784 *	77872 *	77114 *	75595 *	73415 *	70673 *	66844 *	62592 *
-11.0	73367 *	74185 *	74063 *	74185 *	73367 *	71820 *	69755 *	66925 *	63425 *	59267 *
-13.0	68973 *	69800 *	69704 *	69800 *	68973 *	67431 *	65394 *	62660 *	59275 *	55315 *
-15.0	63996 *	64811 *	64718 *	64811 *	63996 *	62520 *	60379 *	57821 *	54568 *	50815 *
-17.0	58414 *	59021 *	59124 *	59021 *	58414 *	57119 *	55050 *	52546 *	49565 *	46007 *
-19.5	50844 *	51547 *	51664 *	51547 *	50844 *	49516 *	47892 *	45750 *	42989 *	40171 *
-22.5	41739 *	42381 *	42589 *	42381 *	41739 *	40940 *	39734 *	38138 *	36121 *	34303 *
-25.5	34599 *	34995 *	35142 *	34995 *	34599 *	34067 *	33273 *	32243 *	31050 *	29963 *
-29.0	28959 *	29119 *	29133 *	29119 *	28959 *	28616 *	28106 *	27558 *	26957 *	26214 *
-33.0	24617 *	24703 *	24707 *	24703 *	24617 *	24411 *	24112 *	23726 *	23258 *	22720 *
-37.5	20726 *	20730 *	20694 *	20730 *	20726 *	20587 *	20377 *	20100 *	19770 *	19380 *
-42.5	17082 *	17021 *	16990 *	17021 *	17082 *	16891 *	16700 *	16450 *	16135 *	15747 *
-47.5	13062 *	13029 *	13013 *	13029 *	13062 *	12914 *	12761 *	12559 *	12310 *	12016 *
-55.0	7556	7571	7578	7571	7556	7453	7364	7244	7095	6915
-65.0	2295	2296	2296	2296	2295	2273	2251	2223	2188	2146
-75.0	814	817	818	817	814	811	802	796	789	780
-85.0	123	122	121	122	123	125	125	125	125	121
-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	119	117	114	111	107	102	97	89	80	70
75.0	769	756	737	712	683	644	594	541	476	407
65.0	2097	2042	1963	1855	1756	1640	1505	1343	1163	980
55.0	6707	6473	6144	5702	5201	4552	3798	2971	2257	1818
47.5	11681 *	11307 *	10794 *	10105 *	9333 *	8376	7200	5926	4382	3030
42.5	15303 *	14813 *	14201 *	13354 *	12419 *	11249 *	9776 *	8067	6210	4404
37.5	18932 *	18424 *	17720 *	16761 *	15621 *	14179 *	12451 *	10379 *	8093	5966
33.0	22142 *	21495 *	20617 *	19524 *	18332 *	16825 *	14731 *	12400 *	9772 *	7246
29.0	25329 *	24488 *	23370 *	21967 *	20516 *	18902 *	16788 *	14104 *	11219 *	8381
25.5	28733 *	27465 *	25971 *	24209 *	22499 *	20483 *	18288 *	15542 *	12396 *	9308 *

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

CANDELA TABULATION - (Cont.)

22.5	32362 *	30470 *	28442 *	26254 *	24241 *	21963 *	19455 *	16730 *	13328 *	10089 *
19.5	37140 *	34327 *	31277 *	28457 *	25994 *	23385 *	20535 *	17690 *	14193 *	10793 *
17.0	42099 *	38472 *	34364 *	30439 *	27410 *	24489 *	21439 *	18372 *	14843 *	11318 *
15.0	46564 *	42133 *	37157 *	32244 *	28611 *	25310 *	22099 *	18861 *	15324 *	11676 *
13.0	50833 *	46036 *	40104 *	34088 *	29766 *	26106 *	22671 *	19316 *	15736 *	11992 *
11.0	54594 *	49575 *	42823 *	35762 *	30747 *	26797 *	23184 *	19711 *	16084 *	12264 *
9.0	57864 *	52572 *	45560 *	37662 *	31855 *	27376 *	23635 *	20042 *	16377 *	12492 *
7.0	60428 *	55061 *	47834 *	39221 *	32793 *	27924 *	24010 *	20308 *	16614 *	12673 *
5.0	62493 *	56984 *	49611 *	40500 *	33603 *	28402 *	24293 *	20507 *	16791 *	12808 *
3.0	63953 *	58325 *	50755 *	41396 *	34178 *	28733 *	24487 *	20641 *	16967 *	12950 *
1.0	64739 *	58990 *	51396 *	41982 *	34505 *	28972 *	24631 *	20720 *	16942 *	12941 *
0.0	64619 *	59045 *	51553 *	42061 *	34572 *	29033 *	24668 *	20721 *	16930 *	12937 *
-1.0	64739 *	58990 *	51396 *	41982 *	34505 *	28972 *	24631 *	20720 *	16942 *	12941 *
-3.0	63953 *	58325 *	50755 *	41396 *	34178 *	28733 *	24487 *	20641 *	16967 *	12950 *
-5.0	62493 *	56984 *	49611 *	40500 *	33603 *	28402 *	24293 *	20507 *	16791 *	12808 *
-7.0	60428 *	55061 *	47834 *	39221 *	32793 *	27924 *	24010 *	20308 *	16614 *	12673 *
-9.0	57864 *	52572 *	45560 *	37662 *	31855 *	27376 *	23635 *	20042 *	16377 *	12492 *
-11.0	54594 *	49575 *	42823 *	35762 *	30747 *	26797 *	23184 *	19711 *	16084 *	12264 *
-13.0	50833 *	46036 *	40104 *	34088 *	29766 *	26106 *	22671 *	19316 *	15736 *	11992 *
-15.0	46564 *	42133 *	37157 *	32244 *	28611 *	25310 *	22099 *	18861 *	15324 *	11676 *
-17.0	42099 *	38472 *	34364 *	30439 *	27410 *	24489 *	21439 *	18372 *	14843 *	11318 *
-19.5	37140 *	34327 *	31277 *	28457 *	25994 *	23385 *	20535 *	17690 *	14193 *	10793 *
-22.5	32362 *	30470 *	28442 *	26254 *	24241 *	21963 *	19455 *	16730 *	13328 *	10089 *
-25.5	28733 *	27465 *	25971 *	24209 *	22499 *	20483 *	18288 *	15542 *	12396 *	9308 *
-29.0	25329 *	24488 *	23370 *	21967 *	20516 *	18902 *	16788 *	14104 *	11219 *	8381
-33.0	22142 *	21495 *	20617 *	19524 *	18332 *	16825 *	14731 *	12400 *	9772 *	7246
-37.5	18932 *	18424 *	17720 *	16761 *	15621 *	14179 *	12451 *	10379 *	8093	5966
-42.5	15303 *	14813 *	14201 *	13354 *	12419 *	11249 *	9776 *	8067	6210	4404
-47.5	11681 *	11307 *	10794 *	10105 *	9333 *	8376	7200	5926	4382	3030
-55.0	6707	6473	6144	5702	5201	4552	3798	2971	2257	1818
-65.0	2097	2042	1963	1855	1756	1640	1505	1343	1163	980
-75.0	769	756	737	712	683	644	594	541	476	407
-85.0	119	117	114	111	107	102	97	89	80	70
-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	51	33	21	7	0
75.0	312	186	85	20	0
65.0	727	423	184	33	0
55.0	1283	723	306	51	0
47.5	1817	978	403	68	0
42.5	2268	1158	474	78	0
37.5	3003	1336	537	88	0
33.0	3810	1503	589	96	0
29.0	4523	1645	638	102	0
25.5	5158	1766	676	106	0
22.5	5644	1862	705	110	0
19.5	6087	1962	731	113	0
17.0	6420	2035	749	116	0
15.0	6656	2086	762	117	0
13.0	6864	2131	773	119	0
11.0	7043	2170	782	123	0
9.0	7193	2202	790	123	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

CANDELA TABULATION - (Cont.)

7.0	7315	2228	796	123	0
5.0	7411	2246	805	123	0
3.0	7510	2266	804	123	0
1.0	7515	2265	803	123	0
0.0	7518	2265	803	123	0
-1.0	7515	2265	803	123	0
-3.0	7510	2266	804	123	0
-5.0	7411	2246	805	123	0
-7.0	7315	2228	796	123	0
-9.0	7193	2202	790	123	0
-11.0	7043	2170	782	123	0
-13.0	6864	2131	773	119	0
-15.0	6656	2086	762	117	0
-17.0	6420	2035	749	116	0
-19.5	6087	1962	731	113	0
-22.5	5644	1862	705	110	0
-25.5	5158	1766	676	106	0
-29.0	4523	1645	638	102	0
-33.0	3810	1503	589	96	0
-37.5	3003	1336	537	88	0
-42.5	2268	1158	474	78	0
-47.5	1817	978	403	68	0
-55.0	1283	723	306	51	0
-65.0	727	423	184	33	0
-75.0	312	186	85	20	0
-85.0	51	33	21	7	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 39398.72

Total Field Lumens (one side of beam only) = 35746.36

* 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	0.09	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.17
75	1.43	2.86	2.85	2.82	2.79	2.75	2.70	2.64	2.58	3.12
65	4.74	9.47	9.41	9.30	9.16	8.99	8.79	8.56	8.29	9.94
55	15.03	30.01	29.74	29.30	28.78	28.12	27.33	26.40	25.36	30.05
47.5	23.53 *	47.05 *	46.70 *	46.00 *	45.16 *	44.11 *	42.83 *	41.36 *	39.71 *	47.08 *
42.5	22.87 *	45.81 *	45.54 *	44.88 *	44.09 *	43.09 *	41.87 *	40.45 *	38.87 *	46.21 *
37.5	28.72 *	57.50 *	57.19 *	56.46 *	55.52 *	54.34 *	52.91 *	51.25 *	49.39 *	58.90 *
33	31.13 *	62.18 *	61.76 *	60.99 *	59.94 *	58.62 *	57.07 *	55.31 *	53.36 *	63.67 *
29	32.79 *	65.39 *	64.78 *	63.76 *	62.44 *	60.89 *	59.08 *	56.99 *	54.73 *	65.06 *
25.5	34.22 *	68.01 *	67.13 *	65.77 *	63.97 *	61.84 *	59.54 *	57.02 *	54.32 *	64.10 *
22.5	35.43 *	70.19 *	68.98 *	67.26 *	64.88 *	61.89 *	58.74 *	55.58 *	52.28 *	60.94 *
19.5	42.99 *	85.17 *	83.43 *	80.92 *	77.60 *	73.34 *	68.64 *	63.83 *	58.98 *	67.54 *
17	42.14 *	83.65 *	82.00 *	79.36 *	75.88 *	71.56 *	66.57 *	61.11 *	55.65 *	62.57 *
15	37.72 *	74.96 *	73.55 *	71.21 *	68.11 *	64.34 *	59.87 *	54.82 *	49.56 *	55.01 *
13	40.97 *	81.46 *	79.89 *	77.47 *	74.28 *	70.29 *	65.54 *	60.15 *	54.33 *	59.82 *
11	43.82 *	87.16 *	85.56 *	83.12 *	79.85 *	75.68 *	70.70 *	65.02 *	58.86 *	64.56 *
9	46.28 *	92.10 *	90.52 *	88.03 *	84.69 *	80.35 *	75.12 *	69.25 *	62.84 *	68.89 *
7	48.34 *	96.19 *	94.61 *	92.12 *	88.66 *	84.14 *	78.79 *	72.78 *	66.15 *	72.69 *
5	50.02 *	99.47 *	97.85 *	95.31 *	91.68 *	87.10 *	81.73 *	75.59 *	68.80 *	75.75 *
3	51.15 *	101.74 *	100.19 *	97.64 *	93.99 *	89.39 *	83.93 *	77.70 *	70.79 *	77.99 *
1	51.66 *	102.91 *	101.65 *	99.19 *	95.47 *	90.76 *	85.21 *	78.98 *	72.03 *	79.36 *
0	25.88 *	51.64 *	51.10 *	49.87 *	47.95 *	45.55 *	42.76 *	39.67 *	36.22 *	39.95 *
-1	25.88 *	51.64 *	51.10 *	49.87 *	47.95 *	45.55 *	42.76 *	39.67 *	36.22 *	39.95 *
	51.66 *	102.91 *	101.65 *	99.19 *	95.47 *	90.76 *	85.21 *	78.98 *	72.03 *	79.36 *

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

LUMENS TABULATION - (Cont.)

-3	51.15 *	101.74 *	100.19 *	97.64 *	93.99 *	89.39 *	83.93 *	77.70 *	70.79 *	77.99 *
-5	50.02 *	99.47 *	97.85 *	95.31 *	91.68 *	87.10 *	81.73 *	75.59 *	68.80 *	75.75 *
-7	48.34 *	96.19 *	94.61 *	92.12 *	88.66 *	84.14 *	78.79 *	72.78 *	66.15 *	72.69 *
-9	46.28 *	92.10 *	90.52 *	88.03 *	84.69 *	80.35 *	75.12 *	69.25 *	62.84 *	68.89 *
-11	43.82 *	87.16 *	85.56 *	83.12 *	79.85 *	75.68 *	70.70 *	65.02 *	58.86 *	64.56 *
-13	40.97 *	81.46 *	79.89 *	77.47 *	74.28 *	70.29 *	65.54 *	60.15 *	54.33 *	59.82 *
-15	37.72 *	74.96 *	73.55 *	71.21 *	68.11 *	64.34 *	59.87 *	54.82 *	49.56 *	55.01 *
-17	42.14 *	83.65 *	82.00 *	79.36 *	75.88 *	71.56 *	66.57 *	61.11 *	55.65 *	62.57 *
-19.5	42.99 *	85.17 *	83.43 *	80.92 *	77.60 *	73.34 *	68.64 *	63.83 *	58.98 *	67.54 *
-22.5	35.43 *	70.19 *	68.98 *	67.26 *	64.88 *	61.89 *	58.74 *	55.58 *	52.28 *	60.94 *
-25.5	34.22 *	68.01 *	67.13 *	65.77 *	63.97 *	61.84 *	59.54 *	57.02 *	54.32 *	64.10 *
-29	32.79 *	65.39 *	64.78 *	63.76 *	62.44 *	60.89 *	59.08 *	56.99 *	54.73 *	65.06 *
-33	31.13 *	62.18 *	61.76 *	60.99 *	59.94 *	58.62 *	57.07 *	55.31 *	53.36 *	63.67 *
-37.5	28.72 *	57.50 *	57.19 *	56.46 *	55.52 *	54.34 *	52.91 *	51.25 *	49.39 *	58.90 *
-42.5	22.87 *	45.81 *	45.54 *	44.88 *	44.09 *	43.09 *	41.87 *	40.45 *	38.87 *	46.21 *
-47.5	23.53 *	47.05 *	46.70 *	46.00 *	45.16 *	44.11 *	42.83 *	41.36 *	39.71 *	47.08 *
-55	15.03	30.01	29.74	29.30	28.78	28.12	27.33	26.40	25.36	30.05
-65	4.74	9.47	9.41	9.30	9.16	8.99	8.79	8.56	8.29	9.94
-75	1.43	2.86	2.85	2.82	2.79	2.75	2.70	2.64	2.58	3.12
-85	0.09	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.17	0.21
-90										
Total	1421.96	2830.18	2789.28	2721.96	2630.17	2514.68	2379.82	2229.3	2066.55	2346.77

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.24	0.23	0.25	0.26	0.26	0.25	0.20	0.22	0.16	0.07
85	3.57	3.37	3.64	3.75	3.70	3.46	2.78	3.00	2.21	0.85
75	11.23	10.45	11.19	11.44	11.14	10.27	8.14	8.67	6.27	2.28
65	33.41	30.29	31.15	30.01	26.91	22.55	16.74	17.18	12.00	4.26
55	52.38	47.49	48.80	46.85	41.75	33.98	23.19	21.30	13.69	4.70

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

LUMENS TABULATION - (Cont.)

47.5	51.67 *	47.17 *	49.02 *	47.77 *	43.32	35.84	24.26	20.58	11.83	3.92
42.5	66.15 *	60.68 *	63.34 *	62.20 *	56.90 *	47.75	33.21	27.94	14.76	4.56
37.5	71.61 *	65.96 *	69.25 *	68.35 *	62.90 *	53.33 *	37.64	32.19	16.52	4.64
33	72.92 *	67.06 *	70.67 *	70.22 *	64.94 *	55.40 *	39.42 *	34.24	17.46	4.55
29	71.30 *	65.15 *	68.33 *	68.03 *	63.38 *	54.36 *	38.91 *	34.22	17.43	4.30
25.5	67.10 *	60.86 *	63.39 *	62.80 *	58.77 *	50.73 *	36.43 *	32.37	16.46	3.91
22.5	73.21 *	65.70 *	67.94 *	66.83 *	62.46 *	54.19 *	39.08 *	34.95	17.75	4.10
19.5	66.40 *	58.59 *	59.99 *	58.64 *	54.58 *	47.46 *	34.42 *	30.92 *	15.69	3.56
17	57.24 *	49.54 *	50.14 *	48.73 *	45.20 *	39.31 *	28.62 *	25.77 *	13.08	2.93
15	61.25 *	52.05 *	52.02 *	50.22 *	46.41 *	40.38 *	29.46 *	26.57 *	13.49	2.99
13	65.16 *	54.41 *	53.74 *	51.56 *	47.50 *	41.32 *	30.19 *	27.27 *	13.85	3.05
11	69.02 *	56.77 *	55.33 *	52.73 *	48.44 *	42.11 *	30.80 *	27.86 *	14.15	3.09
9	72.63 *	59.07 *	56.84 *	53.75 *	49.24 *	42.77 *	31.31 *	28.35 *	14.40	3.13
7	75.57 *	60.99 *	58.15 *	54.63 *	49.87 *	43.28 *	31.70 *	28.73 *	14.60	3.16
5	77.74 *	62.47 *	59.19 *	55.30 *	50.32 *	43.68 *	32.04 *	29.06 *	14.78	3.18
3	79.13 *	63.47 *	59.89 *	55.77 *	50.63 *	43.90 *	32.19 *	29.23 *	14.87	3.19
1	39.88 *	31.95 *	30.11 *	28.01 *	25.39 *	21.96 *	16.08 *	14.62 *	7.44	1.60
0	39.88 *	31.95 *	30.11 *	28.01 *	25.39 *	21.96 *	16.08 *	14.62 *	7.44	1.60
-1	79.13 *	63.47 *	59.89 *	55.77 *	50.63 *	43.90 *	32.19 *	29.23 *	14.87	3.19
-3	77.74 *	62.47 *	59.19 *	55.30 *	50.32 *	43.68 *	32.04 *	29.06 *	14.78	3.18
-5	75.57 *	60.99 *	58.15 *	54.63 *	49.87 *	43.28 *	31.70 *	28.73 *	14.60	3.16
-7	72.63 *	59.07 *	56.84 *	53.75 *	49.24 *	42.77 *	31.31 *	28.35 *	14.40	3.13
-9	69.02 *	56.77 *	55.33 *	52.73 *	48.44 *	42.11 *	30.80 *	27.86 *	14.15	3.09
-11	65.16 *	54.41 *	53.74 *	51.56 *	47.50 *	41.32 *	30.19 *	27.27 *	13.85	3.05
-13	61.25 *	52.05 *	52.02 *	50.22 *	46.41 *	40.38 *	29.46 *	26.57 *	13.49	2.99
-15	57.24 *	49.54 *	50.14 *	48.73 *	45.20 *	39.31 *	28.62 *	25.77 *	13.08	2.93
-17	66.40 *	58.59 *	59.99 *	58.64 *	54.58 *	47.46 *	34.42 *	30.92 *	15.69	3.56
-19.5	73.21 *	65.70 *	67.94 *	66.83 *	62.46 *	54.19 *	39.08 *	34.95	17.75	4.10

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

LUMENS TABULATION - (Cont.)

-22.5	67.10 *	60.86 *	63.39 *	62.80 *	58.77 *	50.73 *	36.43 *	32.37	16.46	3.91
-25.5	71.30 *	65.15 *	68.33 *	68.03 *	63.38 *	54.36 *	38.91 *	34.22	17.43	4.30
-29	72.92 *	67.06 *	70.67 *	70.22 *	64.94 *	55.40 *	39.42 *	34.24	17.46	4.55
-33	71.61 *	65.96 *	69.25 *	68.35 *	62.90 *	53.33 *	37.64	32.19	16.52	4.64
-37.5	66.15 *	60.68 *	63.34 *	62.20 *	56.90 *	47.75	33.21	27.94	14.76	4.56
-42.5	51.67 *	47.17 *	49.02 *	47.77 *	43.32	35.84	24.26	20.58	11.83	3.92
-47.5	52.38	47.49	48.80	46.85	41.75	33.98	23.19	21.30	13.69	4.70
-55	33.41	30.29	31.15	30.01	26.91	22.55	16.74	17.18	12.00	4.26
-65	11.23	10.45	11.19	11.44	11.14	10.27	8.14	8.67	6.27	2.28
-75	3.57	3.37	3.64	3.75	3.70	3.46	2.78	3.00	2.21	0.85
-85	0.24	0.23	0.25	0.26	0.26	0.25	0.20	0.22	0.16	0.07
-90										
Total	2477.58	2147.44	2164.74	2095.74	1928.01	1656.55	1193.63	1070.43	565.82	144.07

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.02	0.00		3.92
85				
	0.18	0.00		57.04
75				
	0.43	0.01		178.18
65				
	0.76	0.01		495.38
55				
	0.82	0.01		758.48
47.5				
	0.68	0.01		749.75
42.5				
	0.78	0.01		960.47
37.5				
	0.78	0.01		1047.23
33				
	0.75	0.01		1083.58
29				
	0.70	0.01		1082.03
25.5				
	0.63	0.01		1049.63
22.5				
	0.66	0.01		1189.32
19.5				
	0.56	0.01		1111.3
17				
	0.46	0.01		970.19

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

LUMENS TABULATION - (Cont.)

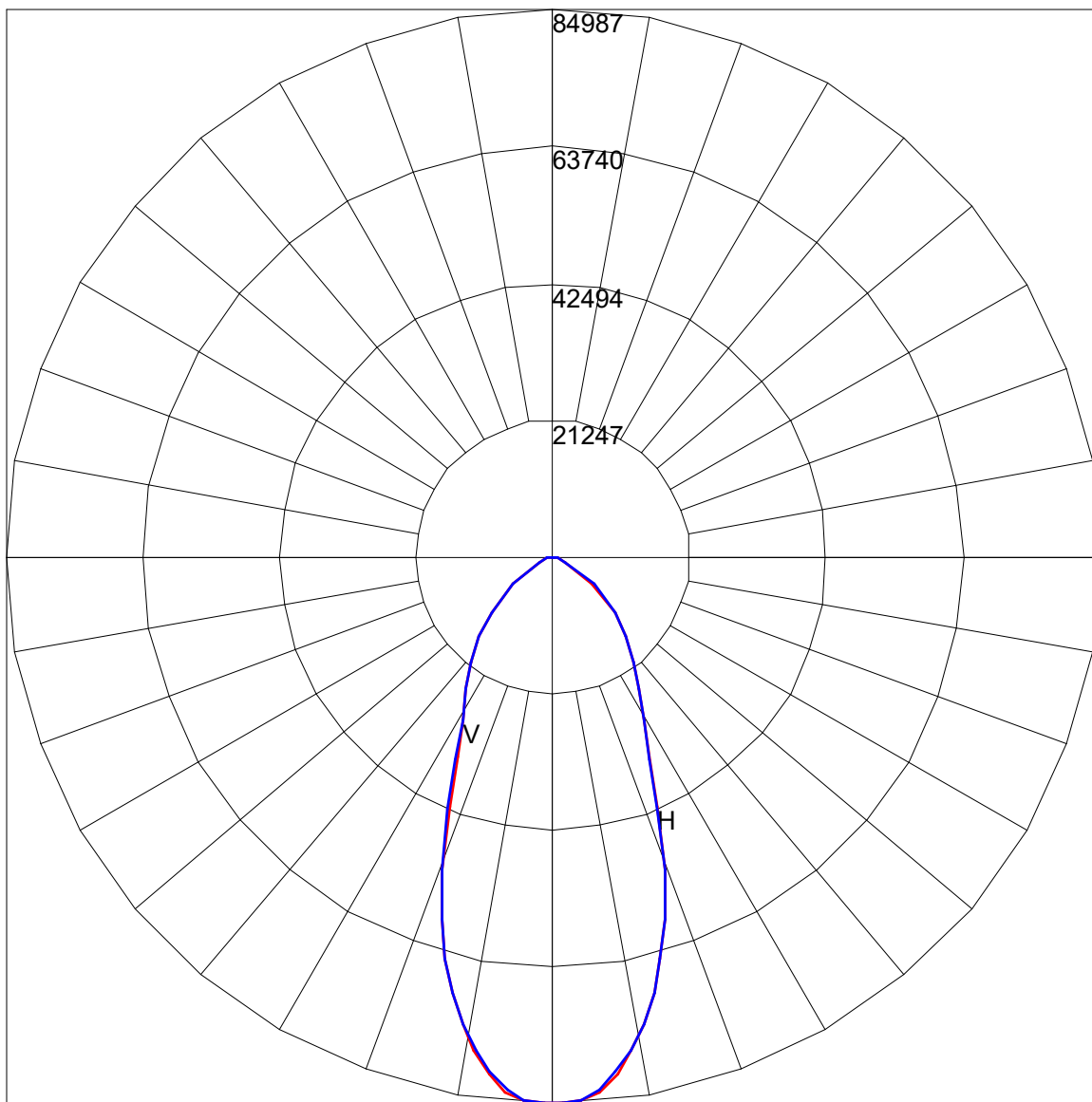
15			
	0.47	0.01	1039.53
13			
	0.47	0.01	1102.88
11			
	0.48	0.01	1158.88
9			
	0.48	0.01	1206.46
7			
	0.49	0.01	1244.47
5			
	0.49	0.01	1272.78
3			
	0.49	0.01	1290.00
1			
	0.24	0.00	647.88
0			
	0.24	0.00	647.88
-1			
	0.49	0.01	1290.00
-3			
	0.49	0.01	1272.78
-5			
	0.49	0.01	1244.47
-7			
	0.48	0.01	1206.46
-9			
	0.48	0.01	1158.88
-11			
	0.47	0.01	1102.88
-13			
	0.47	0.01	1039.53
-15			
	0.46	0.01	970.19
-17			
	0.56	0.01	1111.3
-19.5			
	0.66	0.01	1189.32
-22.5			
	0.63	0.01	1049.63
-25.5			
	0.70	0.01	1082.03
-29			
	0.75	0.01	1083.58
-33			
	0.78	0.01	1047.23
-37.5			
	0.78	0.01	960.47
-42.5			
	0.68	0.01	749.75
-47.5			
	0.82	0.01	758.48
-55			
	0.76	0.01	495.38
-65			
	0.43	0.01	178.18

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-WF-40.IES

LUMENS TABULATION - (Cont.)

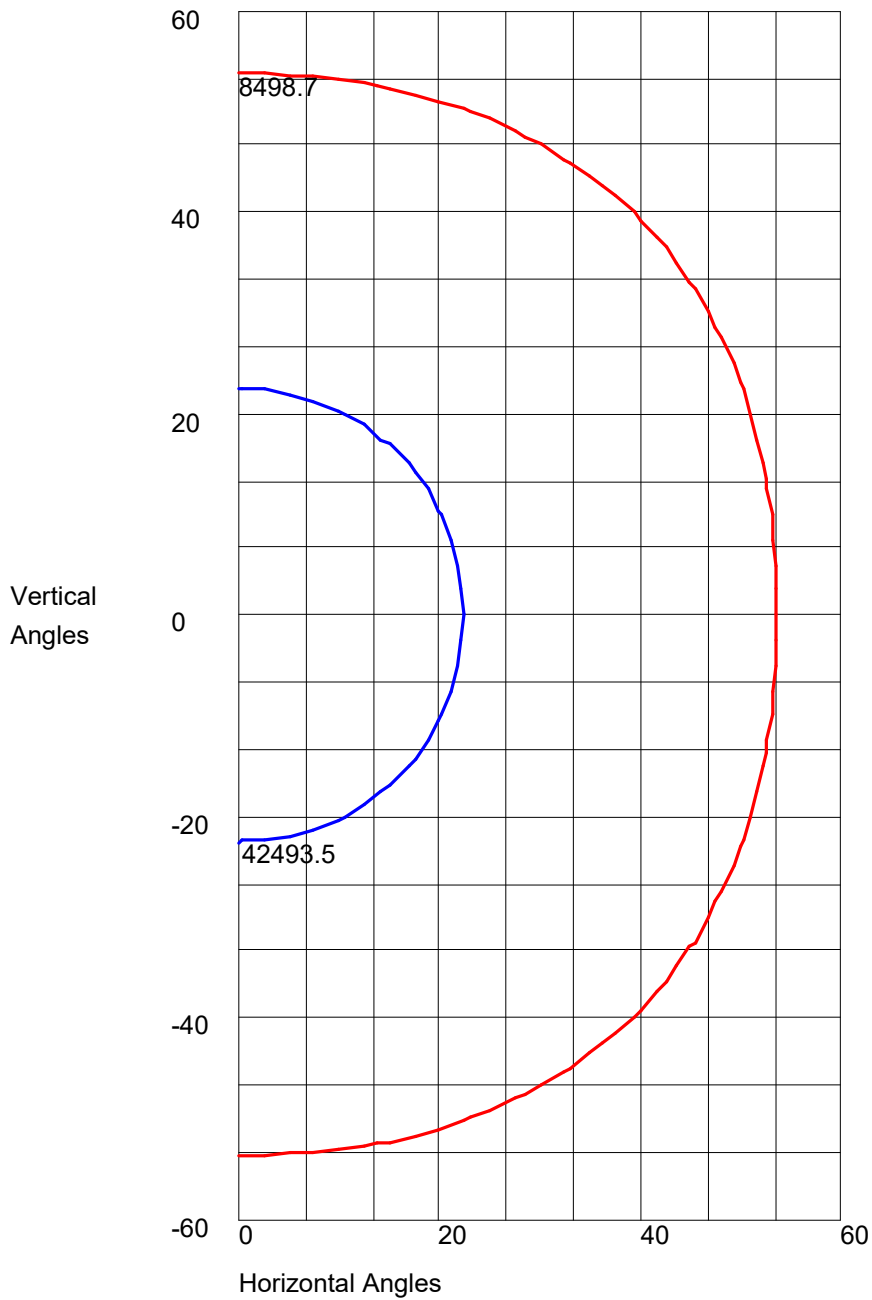
-75	0.18	0.00	57.04
-85	0.02	0.00	3.92
-90			
Total	23.64	0.41	39398.72

AXIAL CANDELA DISPLAY



Maximum Candela = 84987 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 84987 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 42493.5
10% Maximum Candela = 8498.7