



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-WF-40-GS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13806  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 12/22/22  
[TEST DATE] 12/12/22  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-85L-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	85300
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	29394
Beam Efficiency	N.A.
Field Lumens	67259
Field Efficiency	N.A.
Spill Lumens	7144
Luminaire Lumens	74403
Total Efficiency	N.A.
Total Luminaire Watts	573
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	82	85	0
75	657	75	4
65	1994	65	1055
55	6932	55	4275
47.5	12383	47.5	9260
42.5	16293	42.5	13305
37.5	20127	37.5	17513
33	24211	33	22023
29	28668	29	27065
25.5	34350	25.5	33590
22.5	42038	22.5	42457
19.5	51384	19.5	52884
17	59460	17	61141
15	65243	15	67625
13	70228	13	72070
11	74563	11	76086
9	78242	9	79580
7	81253	7	82427
5	83578	5	84467
3	84819	3	85300
1	85092	1	85243
0	85067	0	85067
-1	85092	-1	85005
-3	84819	-3	84554
-5	83578	-5	83119
-7	81253	-7	80410
-9	78242	-9	77023
-11	74563	-11	73003
-13	70228	-13	68315
-15	65243	-15	62843
-17	59460	-17	56581
-19.5	51384	-19.5	48366
-22.5	42038	-22.5	37874
-25.5	34350	-25.5	31794
-29	28668	-29	27202
-33	24211	-33	23409
-37.5	20127	-37.5	19774
-42.5	16293	-42.5	16225
-47.5	12383	-47.5	12449
-55	6932	-55	7102
-65	1994	-65	2162
-75	657	-75	796
-85	82	-85	146
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 85300

Beam Edge = 42650 Cd (50% of Max.)

Field Edge = 8530 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>-90.0</b>	<b>-85.0</b>	<b>-75.0</b>	<b>-65.0</b>	<b>-55.0</b>	<b>-47.5</b>	<b>-42.5</b>	<b>-37.5</b>	<b>-33.0</b>	<b>-29.0</b>
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	3	9	14	16	17	16	14	11	7
<b>75.0</b>	0	10	40	92	139	164	177	177	171	165
<b>65.0</b>	0	17	101	223	374	490	571	645	720	783
<b>55.0</b>	0	29	186	434	769	1082	1313	1730	2208	2623
<b>47.5</b>	0	40	258	643	1226	2018	2973	4090	5007	5855
<b>42.5</b>	0	47	315	803	1612	3184	4552	6024	7380	8582 *
<b>37.5</b>	0	54	371	973	2232	4592	6334	8303	10083 *	11599 *
<b>33.0</b>	0	59	418	1132	2996	5861	8063	10504 *	12599 *	14255 *
<b>29.0</b>	0	64	464	1272	3688	7017	9573 *	12388 *	14667 *	16819 *
<b>25.5</b>	0	67	501	1397	4309	7961	10884 *	13929 *	16501 *	18709 *
<b>22.5</b>	0	70	530	1501	4800	8788 *	11918 *	15227 *	17902 *	20370 *
<b>19.5</b>	0	73	556	1608	5239	9541 *	12848 *	16335 *	19151 *	21987 *
<b>17.0</b>	0	74	576	1689	5588	10122 *	13517 *	17123 *	20187 *	23307 *
<b>15.0</b>	0	76	591	1749	5844	10557 *	14034 *	17714 *	20974 *	24278 *
<b>13.0</b>	0	77	604	1804	6078	10956 *	14528 *	18260 *	21693 *	25225 *
<b>11.0</b>	0	80	616	1854	6289	11315 *	14966 *	18724 *	22352 *	26092 *
<b>9.0</b>	0	81	626	1893	6475	11633 *	15337 *	19095 *	22890 *	26867 *
<b>7.0</b>	0	81	636	1925	6635	11907 *	15641 *	19400 *	23311 *	27531 *
<b>5.0</b>	0	81	648	1952	6758	12127 *	15881 *	19637 *	23644 *	28065 *
<b>3.0</b>	0	82	652	1980	6884	12326 *	16157 *	19849 *	23896 *	28415 *
<b>1.0</b>	0	82	655	1989	6916	12364 *	16248 *	20061 *	24132 *	28626 *
<b>0.0</b>	0	82	657	1994	6932	12383 *	16293 *	20127 *	24211 *	28668 *
<b>-1.0</b>	0	82	659	1999	6946	12379 *	16298 *	20151 *	24225 *	28650 *
<b>-3.0</b>	0	83	662	2008	6974	12371 *	16307 *	20115 *	24180 *	28481 *
<b>-5.0</b>	0	83	665	1998	6911	12211 *	16115 *	19992 *	23932 *	28067 *
<b>-7.0</b>	0	83	659	1988	6850	12096 *	15969 *	19788 *	23578 *	27508 *
<b>-9.0</b>	0	84	657	1972	6749	11945 *	15767 *	19528 *	23140 *	26861 *
<b>-11.0</b>	0	84	652	1949	6619	11745 *	15513 *	19217 *	22641 *	26162 *
<b>-13.0</b>	0	81	647	1918	6459	11497 *	15211 *	18836 *	22096 *	25390 *
<b>-15.0</b>	0	81	640	1882	6270	11201 *	14831 *	18382 *	21507 *	24558 *
<b>-17.0</b>	0	80	631	1839	6054	10859 *	14355 *	17887 *	20852 *	23731 *
<b>-19.5</b>	0	78	617	1777	5745	10382 *	13757 *	17214 *	19969 *	22632 *
<b>-22.5</b>	0	77	598	1691	5341	9747 *	13000 *	16257 *	18889 *	21257 *
<b>-25.5</b>	0	74	574	1606	4889	9037 *	12142 *	14994 *	17737 *	19850 *
<b>-29.0</b>	0	71	543	1497	4294	8154	10936 *	13589 *	16226 *	18236 *
<b>-33.0</b>	0	67	503	1368	3602	7009	9494 *	11992 *	14031 *	16078 *
<b>-37.5</b>	0	62	460	1217	2830	5736	7824	9996 *	11936 *	13489 *
<b>-42.5</b>	0	56	406	1060	2159	4243	6016	7781	9377 *	10766 *
<b>-47.5</b>	0	48	345	902	1741	2887	4249	5730	6936	8035
<b>-55.0</b>	0	36	263	668	1236	1757	2184	2845	3618	4289
<b>-65.0</b>	0	23	159	384	698	950	1124	1293	1452	1588
<b>-75.0</b>	0	14	76	174	305	407	479	540	591	636
<b>-85.0</b>	0	5	21	40	65	85	98	110	119	125
<b>-90.0</b>	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	4	3	2	1	0	0	0	0	0	0
75.0	155	143	129	115	102	89	76	61	45	29
65.0	842	879	918	948	971	990	1005	1016	1022	1024
55.0	2977	3214	3461	3695	3839	3948	4046	4132	4197	4240
47.5	6538	7136	7672	8053	8328	8567 *	8772 *	8965 *	9104 *	9192 *
42.5	9592 *	10399 *	11150 *	11706 *	12061 *	12360 *	12614 *	12822 *	12975 *	13068 *
37.5	12813 *	13693 *	14645 *	15347 *	15831 *	16227 *	16560 *	16834 *	17075 *	17260 *
33.0	15786 *	16980 *	17954 *	18791 *	19420 *	20006 *	20525 *	20956 *	21332 *	21639 *
29.0	18390 *	19807 *	21208 *	22284 *	23049 *	23857 *	24637 *	25308 *	25942 *	26514 *
25.5	20676 *	22473 *	24300 *	25833 *	27105 *	28312 *	29377 *	30777 *	31954 *	32818 *
22.5	22712 *	24920 *	27316 *	29484 *	31543 *	33547 *	35403 *	37663 *	39558 *	41019 *
19.5	24757 *	27469 *	30659 *	34130 *	37197 *	40525 *	43586 *	46604 *	49106 *	51031 *
17.0	26379 *	29713 *	34104 *	38821 *	42841 *	47090 *	51042 *	54244 *	56930 *	59064 *
15.0	27740 *	31739 *	37054 *	42697 *	47620 *	52279 *	56338 *	59874 *	62684 *	64819 *
13.0	29041 *	33923 *	40359 *	46644 *	51965 *	56883 *	61099 *	64687 *	67773 *	69763 *
11.0	30308 *	36040 *	43458 *	50353 *	56013 *	61048 *	65152 *	68699 *	71630 *	73880 *
9.0	31816 *	38208 *	46370 *	53584 *	59379 *	64387 *	68555 *	72045 *	75005 *	77347 *
7.0	33065 *	39934 *	48556 *	55985 *	61633 *	66907 *	71256 *	74860 *	77922 *	80044 *
5.0	33872 *	41120 *	50123 *	57746 *	63375 *	68517 *	73076 *	76886 *	79805 *	81972 *
3.0	34386 *	41803 *	51023 *	58761 *	64454 *	69535 *	73955 *	77835 *	80997 *	83145 *
1.0	34459 *	42116 *	51383 *	59248 *	65088 *	70145 *	74532 *	78210 *	81225 *	83688 *
0.0	34350 *	42038 *	51384 *	59460 *	65243 *	70228 *	74563 *	78242 *	81253 *	83578 *
-1.0	34326 *	41871 *	51071 *	58935 *	64798 *	69687 *	74009 *	77754 *	80862 *	83380 *
-3.0	34008 *	41077 *	50067 *	57786 *	63540 *	68587 *	73067 *	76946 *	80014 *	82195 *
-5.0	33293 *	39955 *	48522 *	56131 *	61877 *	67071 *	71662 *	75313 *	78160 *	80396 *
-7.0	32353 *	38435 *	46474 *	53942 *	59701 *	64786 *	69163 *	72729 *	75625 *	77957 *
-9.0	31181 *	36533 *	43853 *	50962 *	56512 *	61321 *	65740 *	69500 *	72487 *	74816 *
-11.0	29899 *	34353 *	40889 *	47467 *	52605 *	57427 *	61784 *	65581 *	68684 *	70863 *
-13.0	28788 *	32694 *	38193 *	43794 *	48405 *	52964 *	57121 *	60897 *	63953 *	65901 *
-15.0	27613 *	30902 *	35337 *	39812 *	43998 *	48047 *	51902 *	55445 *	58389 *	60286 *
-17.0	26423 *	29152 *	32716 *	36357 *	39357 *	42956 *	46401 *	49567 *	52272 *	54141 *
-19.5	25050 *	27346 *	29948 *	32437 *	34603 *	36961 *	39448 *	42190 *	44384 *	46074 *
-22.5	23427 *	25339 *	27282 *	28911 *	30310 *	31747 *	33058 *	34816 *	36222 *	37254 *
-25.5	21786 *	23406 *	24922 *	26119 *	27145 *	28120 *	28975 *	29957 *	30806 *	31440 *
-29.0	19846 *	21186 *	22428 *	23420 *	24157 *	24865 *	25516 *	26076 *	26581 *	27001 *
-33.0	17598 *	18744 *	19759 *	20569 *	21164 *	21718 *	22234 *	22681 *	23016 *	23246 *
-37.5	14864 *	16081 *	16991 *	17614 *	18059 *	18480 *	18844 *	19150 *	19418 *	19624 *
-42.5	11917 *	12813 *	13567 *	14100 *	14525 *	14919 *	15251 *	15548 *	15802 *	15996 *
-47.5	8922 *	9673 *	10366 *	10846 *	11174 *	11458 *	11702 *	11941 *	12135 *	12282 *
-55.0	4911	5407	5850	6166	6388	6583	6757	6907	7028	7120
-65.0	1702	1788	1877	1943	1991	2034	2073	2105	2130	2149
-75.0	671	697	720	736	748	758	767	775	781	791
-85.0	130	134	137	140	141	143	147	147	147	147
-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	17	8	4	8	17	29	45	61	76	89
65.0	1048	1055	1055	1055	1048	1024	1022	1016	1005	990

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**CANDELA TABULATION - (Cont.)**

55.0	4270	4259	4275	4259	4270	4240	4197	4132	4046	3948
47.5	9293 *	9269 *	9260 *	9269 *	9293 *	9192 *	9104 *	8965 *	8772 *	8567 *
42.5	13191 *	13255 *	13305 *	13255 *	13191 *	13068 *	12975 *	12822 *	12614 *	12360 *
37.5	17380 *	17455 *	17513 *	17455 *	17380 *	17260 *	17075 *	16834 *	16560 *	16227 *
33.0	21853 *	21893 *	22023 *	21893 *	21853 *	21639 *	21332 *	20956 *	20525 *	20006 *
29.0	26891 *	26906 *	27065 *	26906 *	26891 *	26514 *	25942 *	25308 *	24637 *	23857 *
25.5	33375 *	33338 *	33590 *	33338 *	33375 *	32818 *	31954 *	30777 *	29377 *	28312 *
22.5	42020 *	42200 *	42457 *	42200 *	42020 *	41019 *	39558 *	37663 *	35403 *	33547 *
19.5	52321 *	52637 *	52884 *	52637 *	52321 *	51031 *	49106 *	46604 *	43586 *	40525 *
17.0	60430 *	60892 *	61141 *	60892 *	60430 *	59064 *	56930 *	54244 *	51042 *	47090 *
15.0	66250 *	67107 *	67625 *	67107 *	66250 *	64819 *	62684 *	59874 *	56338 *	52279 *
13.0	71026 *	71540 *	72070 *	71540 *	71026 *	69763 *	67773 *	64687 *	61099 *	56883 *
11.0	75186 *	75607 *	76086 *	75607 *	75186 *	73880 *	71630 *	68699 *	65152 *	61048 *
9.0	78697 *	79163 *	79580 *	79163 *	78697 *	77347 *	75005 *	72045 *	68555 *	64387 *
7.0	81571 *	82094 *	82427 *	82094 *	81571 *	80044 *	77922 *	74860 *	71256 *	66907 *
5.0	83404 *	84287 *	84467 *	84287 *	83404 *	81972 *	79805 *	76886 *	73076 *	68517 *
3.0	84450 *	85059 *	85300 *	85059 *	84450 *	83145 *	80997 *	77835 *	73955 *	69535 *
1.0	84859 *	85197 *	85243 *	85197 *	84859 *	83688 *	81225 *	78210 *	74532 *	70145 *
0.0	84819 *	85092 *	85067 *	85092 *	84819 *	83578 *	81253 *	78242 *	74563 *	70228 *
-1.0	84514 *	85001 *	85005 *	85001 *	84514 *	83380 *	80862 *	77754 *	74009 *	69687 *
-3.0	83747 *	84424 *	84554 *	84424 *	83747 *	82195 *	80014 *	76946 *	73067 *	68587 *
-5.0	82066 *	83077 *	83119 *	83077 *	82066 *	80396 *	78160 *	75313 *	71662 *	67071 *
-7.0	79611 *	80323 *	80410 *	80323 *	79611 *	77957 *	75625 *	72729 *	69163 *	64786 *
-9.0	76111 *	76942 *	77023 *	76942 *	76111 *	74816 *	72487 *	69500 *	65740 *	61321 *
-11.0	71955 *	72811 *	73003 *	72811 *	71955 *	70863 *	68684 *	65581 *	61784 *	57427 *
-13.0	67159 *	67966 *	68315 *	67966 *	67159 *	65901 *	63953 *	60897 *	57121 *	52964 *
-15.0	61642 *	62605 *	62843 *	62605 *	61642 *	60286 *	58389 *	55445 *	51902 *	48047 *
-17.0	55479 *	56286 *	56581 *	56286 *	55479 *	54141 *	52272 *	49567 *	46401 *	42956 *
-19.5	47348 *	48115 *	48366 *	48115 *	47348 *	46074 *	44384 *	42190 *	39448 *	36961 *
-22.5	37966 *	38134 *	37874 *	38134 *	37966 *	37254 *	36222 *	34816 *	33058 *	31747 *
-25.5	31859 *	31908 *	31794 *	31908 *	31859 *	31440 *	30806 *	29957 *	28975 *	28120 *
-29.0	27283 *	27284 *	27202 *	27284 *	27283 *	27001 *	26581 *	26076 *	25516 *	24865 *
-33.0	23384 *	23423 *	23409 *	23423 *	23384 *	23246 *	23016 *	22681 *	22234 *	21718 *
-37.5	19766 *	19796 *	19774 *	19796 *	19766 *	19624 *	19418 *	19150 *	18844 *	18480 *
-42.5	16202 *	16217 *	16225 *	16217 *	16202 *	15996 *	15802 *	15548 *	15251 *	14919 *
-47.5	12436 *	12445 *	12449 *	12445 *	12436 *	12282 *	12135 *	11941 *	11702 *	11458 *
-55.0	7184	7129	7102	7129	7184	7120	7028	6907	6757	6583
-65.0	2166	2163	2162	2163	2166	2149	2130	2105	2073	2034
-75.0	793	795	796	795	793	791	781	775	767	758
-85.0	147	146	146	146	147	147	147	147	147	143
-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	2	3	4	7	11	14	16	17
75.0	102	115	129	143	155	165	171	177	177	164
65.0	971	948	918	879	842	783	720	645	571	490
55.0	3839	3695	3461	3214	2977	2623	2208	1730	1313	1082
47.5	8328	8053	7672	7136	6538	5855	5007	4090	2973	2018
42.5	12061 *	11706 *	11150 *	10399 *	9592 *	8582 *	7380	6024	4552	3184
37.5	15831 *	15347 *	14645 *	13693 *	12813 *	11599 *	10083 *	8303	6334	4592
33.0	19420 *	18791 *	17954 *	16980 *	15786 *	14255 *	12599 *	10504 *	8063	5861
29.0	23049 *	22284 *	21208 *	19807 *	18390 *	16819 *	14667 *	12388 *	9573 *	7017
25.5	27105 *	25833 *	24300 *	22473 *	20676 *	18709 *	16501 *	13929 *	10884 *	7961

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**CANDELA TABULATION - (Cont.)**

<b>22.5</b>	31543 *	29484 *	27316 *	24920 *	22712 *	20370 *	17902 *	15227 *	11918 *	8788 *
<b>19.5</b>	37197 *	34130 *	30659 *	27469 *	24757 *	21987 *	19151 *	16335 *	12848 *	9541 *
<b>17.0</b>	42841 *	38821 *	34104 *	29713 *	26379 *	23307 *	20187 *	17123 *	13517 *	10122 *
<b>15.0</b>	47620 *	42697 *	37054 *	31739 *	27740 *	24278 *	20974 *	17714 *	14034 *	10557 *
<b>13.0</b>	51965 *	46644 *	40359 *	33923 *	29041 *	25225 *	21693 *	18260 *	14528 *	10956 *
<b>11.0</b>	56013 *	50353 *	43458 *	36040 *	30308 *	26092 *	22352 *	18724 *	14966 *	11315 *
<b>9.0</b>	59379 *	53584 *	46370 *	38208 *	31816 *	26867 *	22890 *	19095 *	15337 *	11633 *
<b>7.0</b>	61633 *	55985 *	48556 *	39934 *	33065 *	27531 *	23311 *	19400 *	15641 *	11907 *
<b>5.0</b>	63375 *	57746 *	50123 *	41120 *	33872 *	28065 *	23644 *	19637 *	15881 *	12127 *
<b>3.0</b>	64454 *	58761 *	51023 *	41803 *	34386 *	28415 *	23896 *	19849 *	16157 *	12326 *
<b>1.0</b>	65088 *	59248 *	51383 *	42116 *	34459 *	28626 *	24132 *	20061 *	16248 *	12364 *
<b>0.0</b>	65243 *	59460 *	51384 *	42038 *	34350 *	28668 *	24211 *	20127 *	16293 *	12383 *
<b>-1.0</b>	64798 *	58935 *	51071 *	41871 *	34326 *	28650 *	24225 *	20151 *	16298 *	12379 *
<b>-3.0</b>	63540 *	57786 *	50067 *	41077 *	34008 *	28481 *	24180 *	20115 *	16307 *	12371 *
<b>-5.0</b>	61877 *	56131 *	48522 *	39955 *	33293 *	28067 *	23932 *	19992 *	16115 *	12211 *
<b>-7.0</b>	59701 *	53942 *	46474 *	38435 *	32353 *	27508 *	23578 *	19788 *	15969 *	12096 *
<b>-9.0</b>	56512 *	50962 *	43853 *	36533 *	31181 *	26861 *	23140 *	19528 *	15767 *	11945 *
<b>-11.0</b>	52605 *	47467 *	40889 *	34353 *	29899 *	26162 *	22641 *	19217 *	15513 *	11745 *
<b>-13.0</b>	48405 *	43794 *	38193 *	32694 *	28788 *	25390 *	22096 *	18836 *	15211 *	11497 *
<b>-15.0</b>	43998 *	39812 *	35337 *	30902 *	27613 *	24558 *	21507 *	18382 *	14831 *	11201 *
<b>-17.0</b>	39357 *	36357 *	32716 *	29152 *	26423 *	23731 *	20852 *	17887 *	14355 *	10859 *
<b>-19.5</b>	34603 *	32437 *	29948 *	27346 *	25050 *	22632 *	19969 *	17214 *	13757 *	10382 *
<b>-22.5</b>	30310 *	28911 *	27282 *	25339 *	23427 *	21257 *	18889 *	16257 *	13000 *	9747 *
<b>-25.5</b>	27145 *	26119 *	24922 *	23406 *	21786 *	19850 *	17737 *	14994 *	12142 *	9037 *
<b>-29.0</b>	24157 *	23420 *	22428 *	21186 *	19846 *	18236 *	16226 *	13589 *	10936 *	8154
<b>-33.0</b>	21164 *	20569 *	19759 *	18744 *	17598 *	16078 *	14031 *	11992 *	9494 *	7009
<b>-37.5</b>	18059 *	17614 *	16991 *	16081 *	14864 *	13489 *	11936 *	9996 *	7824	5736
<b>-42.5</b>	14525 *	14100 *	13567 *	12813 *	11917 *	10766 *	9377 *	7781	6016	4243
<b>-47.5</b>	11174 *	10846 *	10366 *	9673 *	8922 *	8035	6936	5730	4249	2887
<b>-55.0</b>	6388	6166	5850	5407	4911	4289	3618	2845	2184	1757
<b>-65.0</b>	1991	1943	1877	1788	1702	1588	1452	1293	1124	950
<b>-75.0</b>	748	736	720	697	671	636	591	540	479	407
<b>-85.0</b>	141	140	137	134	130	125	119	110	98	85
<b>-90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>				
	<b><u>55.0</u></b>	<b><u>65.0</u></b>	<b><u>75.0</u></b>	<b><u>85.0</u></b>	<b><u>90.0</u></b>
<b>90.0</b>	0	0	0	0	0
<b>85.0</b>	16	14	9	3	0
<b>75.0</b>	139	92	40	10	0
<b>65.0</b>	374	223	101	17	0
<b>55.0</b>	769	434	186	29	0
<b>47.5</b>	1226	643	258	40	0
<b>42.5</b>	1612	803	315	47	0
<b>37.5</b>	2232	973	371	54	0
<b>33.0</b>	2996	1132	418	59	0
<b>29.0</b>	3688	1272	464	64	0
<b>25.5</b>	4309	1397	501	67	0
<b>22.5</b>	4800	1501	530	70	0
<b>19.5</b>	5239	1608	556	73	0
<b>17.0</b>	5588	1689	576	74	0
<b>15.0</b>	5844	1749	591	76	0
<b>13.0</b>	6078	1804	604	77	0
<b>11.0</b>	6289	1854	616	80	0
<b>9.0</b>	6475	1893	626	81	0

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

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	6635	1925	636	81	0
<b>5.0</b>	6758	1952	648	81	0
<b>3.0</b>	6884	1980	652	82	0
<b>1.0</b>	6916	1989	655	82	0
<b>0.0</b>	6932	1994	657	82	0
<b>-1.0</b>	6946	1999	659	82	0
<b>-3.0</b>	6974	2008	662	83	0
<b>-5.0</b>	6911	1998	665	83	0
<b>-7.0</b>	6850	1988	659	83	0
<b>-9.0</b>	6749	1972	657	84	0
<b>-11.0</b>	6619	1949	652	84	0
<b>-13.0</b>	6459	1918	647	81	0
<b>-15.0</b>	6270	1882	640	81	0
<b>-17.0</b>	6054	1839	631	80	0
<b>-19.5</b>	5745	1777	617	78	0
<b>-22.5</b>	5341	1691	598	77	0
<b>-25.5</b>	4889	1606	574	74	0
<b>-29.0</b>	4294	1497	543	71	0
<b>-33.0</b>	3602	1368	503	67	0
<b>-37.5</b>	2830	1217	460	62	0
<b>-42.5</b>	2159	1060	406	56	0
<b>-47.5</b>	1741	902	345	48	0
<b>-55.0</b>	1236	668	263	36	0
<b>-65.0</b>	698	384	159	23	0
<b>-75.0</b>	305	174	76	14	0
<b>-85.0</b>	65	40	21	5	0
<b>-90.0</b>	0	0	0	0	0

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

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 37201.53

Total Field Lumens (one side of beam only) = 33629.7

\* 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.01	0.04	0.07	0.11	0.16	0.21	0.25	0.28	0.32	0.45
65	1.62	3.24	3.22	3.21	3.23	3.24	3.22	3.18	3.13	3.81
55	8.11	16.18	16.08	15.88	15.64	15.30	14.88	14.41	13.84	16.31
47.5	15.46	30.93	30.76	30.37	29.86	29.15	28.30	27.36	26.26	31.03
42.5	17.17 *	34.25 *	33.99 *	33.58 *	33.08 *	32.38 *	31.52 *	30.53 *	29.39 *	34.88 *
37.5	23.43 *	46.64 *	46.26 *	45.73 *	45.02 *	44.12 *	43.02 *	41.73 *	40.22 *	47.77 *
33	27.03 *	53.82 *	53.42 *	52.69 *	51.71 *	50.54 *	49.15 *	47.54 *	45.71 *	54.30 *
29	29.82 *	59.39 *	58.89 *	57.82 *	56.43 *	54.85 *	53.05 *	51.03 *	48.92 *	58.03 *
25.5	32.22 *	64.20 *	63.60 *	62.15 *	60.17 *	57.80 *	55.36 *	52.92 *	50.35 *	59.24 *
22.5	34.63 *	68.92 *	68.02 *	66.05 *	63.32 *	59.94 *	56.60 *	53.42 *	50.05 *	58.00 *
19.5	43.45 *	86.38 *	84.96 *	82.12 *	78.24 *	73.46 *	68.41 *	63.31 *	58.13 *	65.95 *
17	43.32 *	86.10 *	84.64 *	81.84 *	78.00 *	73.30 *	67.87 *	61.94 *	55.99 *	62.24 *
15	39.11 *	77.53 *	76.14 *	73.76 *	70.50 *	66.44 *	61.60 *	56.11 *	50.36 *	55.21 *
13	42.39 *	84.00 *	82.61 *	80.29 *	76.92 *	72.59 *	67.51 *	61.70 *	55.32 *	60.30 *
11	44.97 *	89.30 *	88.08 *	85.74 *	82.28 *	77.88 *	72.75 *	66.77 *	60.02 *	65.38 *
9	47.28 *	93.96 *	92.71 *	90.23 *	86.68 *	82.33 *	77.21 *	71.18 *	64.22 *	70.06 *
7	49.23 *	97.88 *	96.52 *	94.01 *	90.44 *	86.01 *	80.77 *	74.57 *	67.51 *	73.94 *
5	50.76 *	100.87 *	99.36 *	96.86 *	93.35 *	88.82 *	83.35 *	76.97 *	69.90 *	76.81 *
3	51.65 *	102.65 *	101.18 *	98.73 *	95.17 *	90.52 *	84.94 *	78.58 *	71.54 *	78.70 *
1	51.90 *	103.37 *	102.14 *	99.68 *	96.00 *	91.35 *	85.86 *	79.57 *	72.48 *	79.70 *
0	25.94 *	51.75 *	51.19 *	49.95 *	48.10 *	45.83 *	43.12 *	40.00 *	36.46 *	40.04 *
-1	25.90 *	51.66 *	51.09 *	49.84 *	47.98 *	45.68 *	42.98 *	39.89 *	36.37 *	39.93 *
	51.63 *	102.80 *	101.44 *	98.89 *	95.19 *	90.53 *	85.02 *	78.80 *	71.75 *	78.78 *

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

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	51.05 *	101.47 *	99.79 *	97.17 *	93.64 *	89.09 *	83.54 *	77.16 *	70.08 *	76.84 *
<b>-5</b>	49.79 *	98.96 *	97.24 *	94.56 *	91.04 *	86.65 *	81.24 *	74.90 *	67.83 *	74.15 *
<b>-7</b>	47.93 *	95.28 *	93.74 *	91.15 *	87.58 *	83.13 *	77.77 *	71.62 *	64.74 *	70.59 *
<b>-9</b>	45.66 *	90.66 *	89.26 *	86.90 *	83.33 *	78.77 *	73.38 *	67.35 *	60.77 *	66.23 *
<b>-11</b>	42.96 *	85.20 *	83.83 *	81.61 *	78.16 *	73.61 *	68.32 *	62.48 *	56.30 *	61.59 *
<b>-13</b>	39.86 *	78.96 *	77.48 *	75.29 *	72.00 *	67.60 *	62.58 *	57.16 *	51.54 *	56.82 *
<b>-15</b>	36.30 *	71.85 *	70.36 *	68.19 *	65.06 *	60.99 *	56.40 *	51.53 *	46.71 *	52.15 *
<b>-17</b>	39.85 *	78.85 *	77.12 *	74.55 *	71.04 *	66.60 *	61.74 *	56.85 *	52.25 *	59.42 *
<b>-19.5</b>	39.41 *	78.34 *	76.87 *	74.49 *	71.31 *	67.27 *	63.11 *	59.24 *	55.45 *	64.31 *
<b>-22.5</b>	31.92 *	63.87 *	63.14 *	61.67 *	59.63 *	57.06 *	54.48 *	52.01 *	49.40 *	58.16 *
<b>-25.5</b>	31.50 *	63.04 *	62.53 *	61.40 *	59.87 *	58.02 *	56.04 *	53.94 *	51.67 *	61.31 *
<b>-29</b>	30.86 *	61.72 *	61.33 *	60.49 *	59.33 *	57.90 *	56.21 *	54.33 *	52.30 *	62.32 *
<b>-33</b>	29.61 *	59.16 *	58.81 *	58.14 *	57.19 *	55.96 *	54.49 *	52.81 *	51.00 *	60.96 *
<b>-37.5</b>	27.42 *	54.78 *	54.38 *	53.65 *	52.72 *	51.59 *	50.27 *	48.75 *	47.07 *	56.29 *
<b>-42.5</b>	21.83 *	43.61 *	43.24 *	42.57 *	41.80 *	40.83 *	39.72 *	38.48 *	37.07 *	44.19 *
<b>-47.5</b>	22.35 *	44.74 *	44.46 *	43.81 *	43.00 *	41.97 *	40.78 *	39.46 *	37.96 *	45.06
<b>-55</b>	14.13	28.37	28.29	27.91	27.40	26.76	25.99	25.12	24.14	28.63
<b>-65</b>	4.51	9.01	8.96	8.86	8.73	8.58	8.39	8.17	7.93	9.54
<b>-75</b>	1.43	2.86	2.85	2.83	2.79	2.75	2.70	2.65	2.58	3.13
<b>-85</b>	0.11	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.25
<b>-90</b>										
<b>Total</b>	1365.48	2716.8	2680.24	2614.99	2523.34	2407.61	2274.12	2126.01	1965.26	2222.81

**Vert. Horizontal Angles**

<b>Angles</b>	<b>19.5</b>	<b>22.5</b>	<b>25.5</b>	<b>29</b>	<b>33</b>	<b>37.5</b>	<b>42.5</b>	<b>47.5</b>	<b>55</b>	<b>65</b>
<b>90</b>	0.01	0.01	0.01	0.02	0.03	0.04	0.04	0.06	0.06	0.03
<b>85</b>	0.59	0.64	0.78	0.92	1.04	1.12	1.01	1.20	0.99	0.40
<b>75</b>	4.41	4.21	4.61	4.80	4.79	4.58	3.77	4.17	3.15	1.19
<b>65</b>	18.07	16.51	17.12	16.54	14.84	12.42	9.30	9.70	6.85	2.46
<b>55</b>	34.36	31.09	31.97	30.73	27.35	22.10	14.91	13.65	8.76	2.97

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

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	38.77 *	35.13	36.21	35.01	31.48	25.72	17.13	14.36	8.15	2.63
<b>42.5</b>	53.20 *	48.52 *	50.45 *	49.14 *	44.47	36.76	25.12	20.76	10.69	3.20
<b>37.5</b>	60.72 *	55.66 *	58.06 *	57.02 *	52.24 *	43.57	30.10	25.21	12.55	3.39
<b>33</b>	64.79 *	59.24 *	61.84 *	60.92 *	56.13 *	47.27 *	32.85	27.95	13.82	3.42
<b>29</b>	65.53 *	59.42 *	61.86 *	60.94 *	56.29 *	47.74 *	33.38 *	28.73	14.20	3.31
<b>25.5</b>	63.35 *	56.83 *	58.61 *	57.55 *	53.35 *	45.45 *	31.94 *	27.71	13.70	3.07
<b>22.5</b>	70.61 *	62.52 *	63.85 *	62.19 *	57.59 *	49.27 *	34.80 *	30.40	15.00	3.27
<b>19.5</b>	65.02 *	56.51 *	57.12 *	55.23 *	50.92 *	43.61 *	30.97 *	27.23	13.43	2.88
<b>17</b>	56.56 *	48.24 *	48.19 *	46.34 *	42.53 *	36.38 *	25.96 *	22.94	11.31	2.40
<b>15</b>	61.03 *	51.10 *	50.36 *	48.12 *	44.01 *	37.64 *	26.96 *	23.89	11.77	2.47
<b>13</b>	65.59 *	53.97 *	52.44 *	49.79 *	45.34 *	38.77 *	27.87 *	24.75 *	12.19	2.54
<b>11</b>	69.98 *	56.92 *	54.53 *	51.27 *	46.48 *	39.73 *	28.67 *	25.52 *	12.56	2.60
<b>9</b>	73.82 *	59.69 *	56.52 *	52.52 *	47.39 *	40.52 *	29.35 *	26.19 *	12.88	2.64
<b>7</b>	76.66 *	61.77 *	58.06 *	53.54 *	48.12 *	41.15 *	29.91 *	26.74 *	13.14	2.69
<b>5</b>	78.51 *	63.10 *	59.11 *	54.31 *	48.70 *	41.71 *	30.41 *	27.22 *	13.37	2.72
<b>3</b>	79.47 *	63.76 *	59.65 *	54.86 *	49.21 *	42.17 *	30.74 *	27.50 *	13.51	2.74
<b>1</b>	39.86 *	31.92 *	29.88 *	27.58 *	24.77 *	21.21 *	15.42 *	13.79 *	6.78	1.38
<b>0</b>	39.74 *	31.84 *	29.85 *	27.61 *	24.82 *	21.25 *	15.44 *	13.80 *	6.80	1.38
<b>-1</b>	78.52 *	63.14 *	59.45 *	55.10 *	49.62 *	42.50 *	30.88 *	27.63 *	13.63	2.77
<b>-3</b>	76.61 *	61.91 *	58.69 *	54.64 *	49.37 *	42.30 *	30.69 *	27.48 *	13.61	2.77
<b>-5</b>	73.95 *	60.12 *	57.44 *	53.82 *	48.85 *	41.91 *	30.36 *	27.20 *	13.50	2.76
<b>-7</b>	70.50 *	57.81 *	55.87 *	52.78 *	48.14 *	41.44 *	30.03 *	26.89 *	13.35	2.74
<b>-9</b>	66.38 *	55.08 *	54.07 *	51.59 *	47.30 *	40.84 *	29.59 *	26.48 *	13.15	2.72
<b>-11</b>	62.33 *	52.48 *	52.24 *	50.27 *	46.33 *	40.11 *	29.05 *	25.95 *	12.89	2.69
<b>-13</b>	58.49 *	50.08 *	50.39 *	48.84 *	45.23 *	39.23 *	28.39 *	25.31 *	12.57	2.65
<b>-15</b>	54.64 *	47.62 *	48.49 *	47.33 *	44.00 *	38.17 *	27.59 *	24.57 *	12.20	2.60
<b>-17</b>	63.53 *	56.33 *	57.95 *	56.90 *	53.10 *	46.08 *	33.21 *	29.51	14.66	3.16
<b>-19.5</b>	70.32 *	63.33 *	65.65 *	64.80 *	60.71 *	52.69 *	37.86 *	33.45	16.60	3.65

**IES FLOOD REPORT**  
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**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	64.59 *	58.82 *	61.35 *	60.88 *	56.97 *	49.33 *	35.47 *	31.10	15.43	3.49
<b>-25.5</b>	68.63 *	62.98 *	66.10 *	65.83 *	61.25 *	52.72 *	37.94 *	32.98	16.35	3.84
<b>-29</b>	70.05 *	64.59 *	68.00 *	67.43 *	62.49 *	53.67 *	38.32 *	32.95	16.37	4.07
<b>-33</b>	68.69 *	63.19 *	66.13 *	65.24 *	60.38 *	51.58 *	36.41	30.83	15.43	4.15
<b>-37.5</b>	63.39 *	58.09 *	60.46 *	59.48 *	54.68 *	46.10	32.06	26.74	13.82	4.09
<b>-42.5</b>	49.50 *	45.21 *	46.96 *	45.83 *	41.72	34.66	23.41	19.70	11.15	3.53
<b>-47.5</b>	50.06	45.25	46.48	44.79	40.14	32.82	22.36	20.42	12.97	4.25
<b>-55</b>	31.82	28.82	29.59	28.58	25.76	21.71	16.19	16.58	11.36	3.83
<b>-65</b>	10.84	10.14	10.89	11.14	10.84	10.02	7.97	8.43	5.94	2.06
<b>-75</b>	3.60	3.41	3.70	3.84	3.81	3.58	2.88	3.08	2.22	0.81
<b>-85</b>	0.29	0.28	0.30	0.32	0.32	0.30	0.25	0.27	0.20	0.08
<b>-90</b>										
<b>Total</b>	2337.38	2017.27	2021.26	1946.38	1782.9	1521.93	1086.91	961.01	493.02	118.49

<b>Vert. Angles</b>	<b>Horizontal Angles</b>			
	<b><u>75</u></b>	<b><u>85</u></b>	<b><u>90</u></b>	<b><u>Total</u></b>
<b>90</b>				
	0.01	0.00	0.33	
<b>85</b>				
	0.08	0.00	10.67	
<b>75</b>				
	0.22	0.00	71.00	
<b>65</b>				
	0.44	0.01	270.85	
<b>55</b>				
	0.51	0.01	497.88	
<b>47.5</b>				
	0.44	0.01	555.77	
<b>42.5</b>				
	0.52	0.01	766.76	
<b>37.5</b>				
	0.54	0.01	884.96	
<b>33</b>				
	0.53	0.01	956.99	
<b>29</b>				
	0.51	0.01	989.91	
<b>25.5</b>				
	0.46	0.01	990.98	
<b>22.5</b>				
	0.49	0.01	1154.4	
<b>19.5</b>				
	0.42	0.01	1098.61	
<b>17</b>				
	0.35	0.00	967.95	

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

**LUMENS TABULATION - (Cont.)**

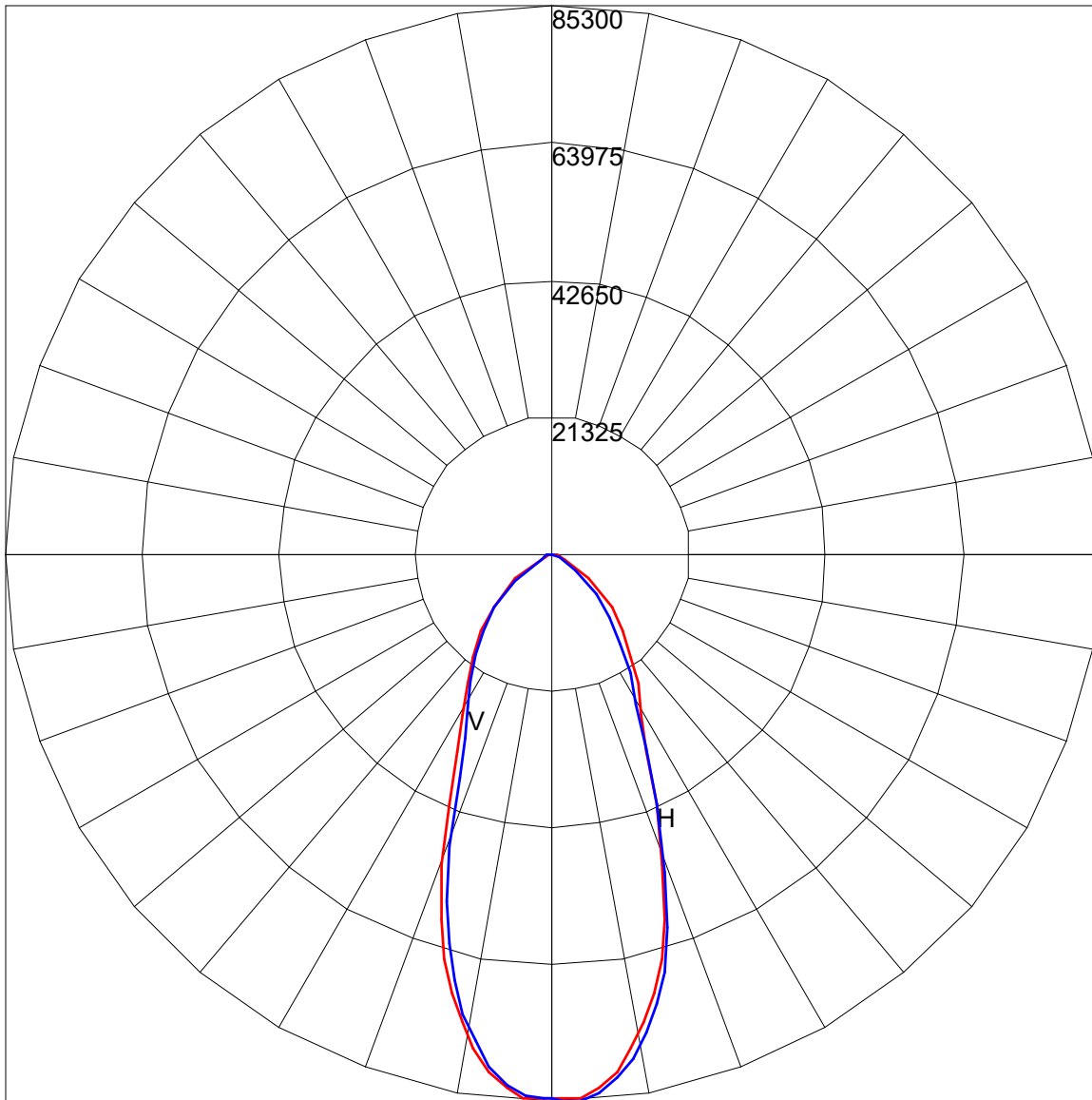
<b>15</b>	0.36	0.01	1041.33
<b>13</b>	0.36	0.01	1106.8
<b>11</b>	0.37	0.01	1164.49
<b>9</b>	0.38	0.01	1212.79
<b>7</b>	0.38	0.01	1249.2
<b>5</b>	0.39	0.01	1273.21
<b>3</b>	0.39	0.01	1286.07
<b>1</b>	0.19	0.00	645.16
<b>0</b>	0.20	0.00	644.06
<b>-1</b>	0.39	0.01	1278.45
<b>-3</b>	0.39	0.01	1258.29
<b>-5</b>	0.39	0.01	1226.68
<b>-7</b>	0.39	0.01	1183.48
<b>-9</b>	0.39	0.01	1129.88
<b>-11</b>	0.39	0.01	1068.79
<b>-13</b>	0.38	0.01	1000.85
<b>-15</b>	0.38	0.01	927.11
<b>-17</b>	0.46	0.01	1053.17
<b>-19.5</b>	0.54	0.01	1119.44
<b>-22.5</b>	0.52	0.01	989.30
<b>-25.5</b>	0.58	0.01	1028.53
<b>-29</b>	0.63	0.01	1035.36
<b>-33</b>	0.65	0.01	1000.81
<b>-37.5</b>	0.65	0.01	916.49
<b>-42.5</b>	0.56	0.01	715.58
<b>-47.5</b>	0.69	0.01	723.82
<b>-55</b>	0.64	0.01	471.63
<b>-65</b>	0.36	0.01	171.32

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

**LUMENS TABULATION - (Cont.)**

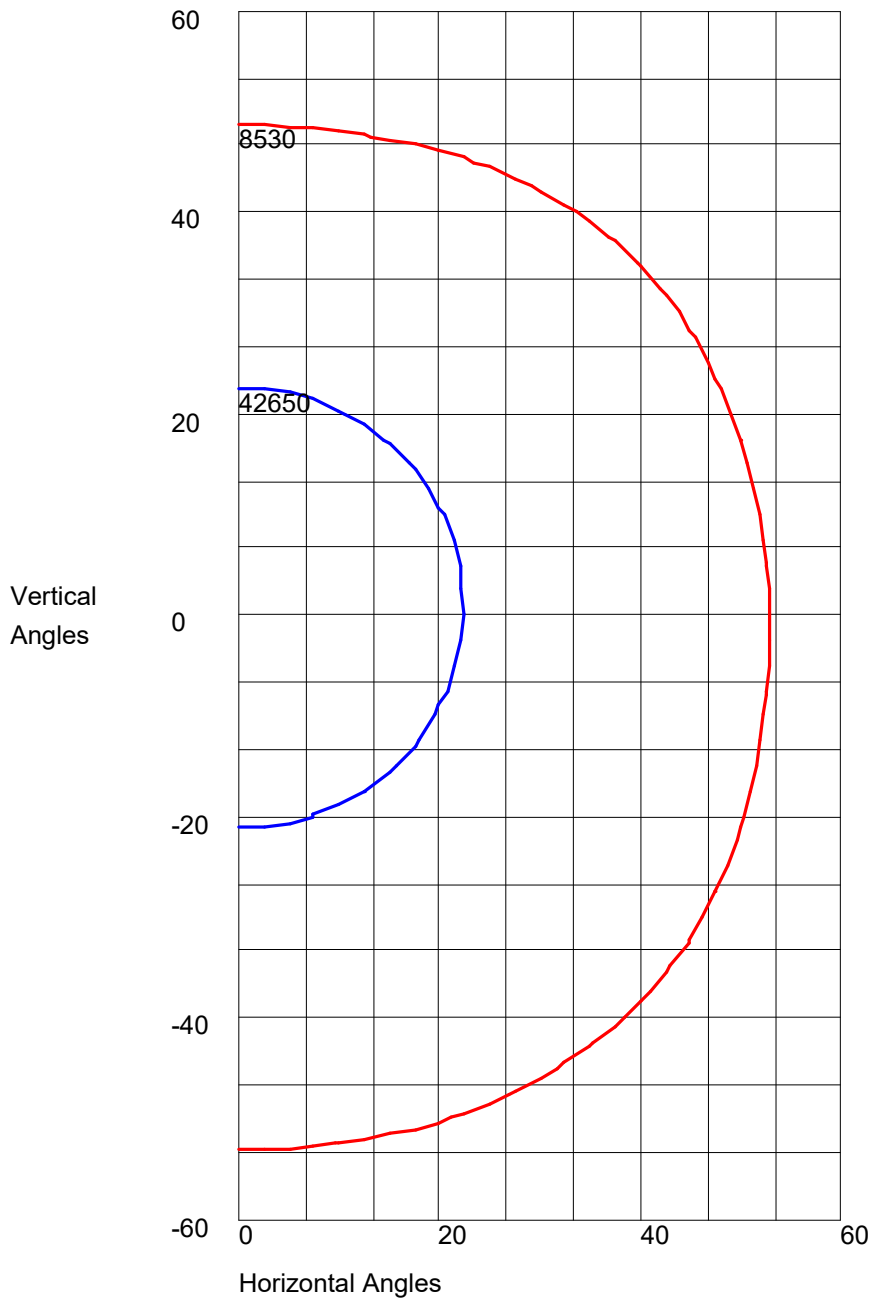
<b>-75</b>	0.15	0.00	57.66
<b>-85</b>	0.02	0.00	4.72
<b>-90</b>			
<b>Total</b>	18.09	0.27	37201.56

AXIAL CANDELA DISPLAY



Maximum Candela = 85300 Located At Horizontal Angle = 0, Vertical Angle = 3  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 85300 Located At Horizontal Angle = 0, Vertical Angle = 3  
50% Maximum Candela = 42650  
10% Maximum Candela = 8530