



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-MWF-40.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13021  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/30/22  
[TEST DATE] 10/20/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-70L-MWF-40  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLORTEMP] 4000

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

### CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	113080
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	40.4
Vertical Beam Angle (50%)	40.4
Horizontal Field Angle (10%)	78.5
Vertical Field Angle (10%)	78.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	33534
Beam Efficiency	N.A.
Field Lumens	60248
Field Efficiency	N.A.
Spill Lumens	8354
Luminaire Lumens	68602
Total Efficiency	N.A.
Total Luminaire Watts	462.7
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	59	85	60
75	330	75	327
65	843	65	844
55	1904	55	1897
47.5	3402	47.5	3499
42.5	7585	42.5	7685
37.5	13310	37.5	13260
33	19904	33	19828
29	27212	29	27189
25.5	35181	25.5	35483
22.5	45105	22.5	45229
19.5	60265	19.5	60311
17	74559	17	74859
15	84927	15	85177
13	93201	13	93355
11	99726	11	99930
9	104980	9	105229
7	109140	7	109343
5	112086	5	112136
3	112908	3	112982
1	112997	1	113030
0	112920	0	112920
-1	112997	-1	113030
-3	112908	-3	112982
-5	112086	-5	112136
-7	109140	-7	109343
-9	104980	-9	105229
-11	99726	-11	99930
-13	93201	-13	93355
-15	84927	-15	85177
-17	74559	-17	74859
-19.5	60265	-19.5	60311
-22.5	45105	-22.5	45229
-25.5	35181	-25.5	35483
-29	27212	-29	27189
-33	19904	-33	19828
-37.5	13310	-37.5	13260
-42.5	7585	-42.5	7685
-47.5	3402	-47.5	3499
-55	1904	-55	1897
-65	843	-65	844
-75	330	-75	327
-85	59	-85	60
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 113080

Beam Edge = 56540 Cd (50% of Max.)

Field Edge = 11308 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	4	11	18	27	34	39	44	48	51
75.0	0	11	43	87	138	176	202	227	247	264
65.0	0	18	89	184	295	385	452	526	593	645
55.0	0	27	140	295	506	715	865	1031	1199	1347
47.5	0	35	178	385	707	1034	1312	1502	1814	2097
42.5	0	39	204	452	850	1312	1564	2031	2413	2690
37.5	0	44	229	524	1022	1488	2021	2509	3275	4639
33.0	0	47	249	588	1183	1790	2401	3265	5187	7418
29.0	0	50	266	642	1310	2078	2663	4592	7375	10355
25.5	0	52	279	688	1390	2303	3219	6019	9481	12819 *
22.5	0	54	289	720	1454	2411	3808	7294	11275	15132 *
19.5	0	55	297	752	1535	2504	4601	8624	12987 *	17471 *
17.0	0	56	304	775	1618	2633	5189	9674	14437 *	19405 *
15.0	0	57	309	791	1677	2805	5695	10430	15523 *	20850 *
13.0	0	57	314	806	1729	2954	6177	11159	16497 *	22330 *
11.0	0	59	318	818	1773	3081	6597	11783 *	17422 *	23607 *
9.0	0	59	321	827	1810	3186	6951	12284 *	18216 *	24671 *
7.0	0	59	324	834	1840	3267	7237	12680 *	18853 *	25607 *
5.0	0	59	328	839	1867	3327	7454	12969 *	19347 *	26371 *
3.0	0	59	329	845	1895	3400	7647	13169 *	19688 *	26887 *
1.0	0	59	330	844	1901	3401	7606	13303 *	19875 *	27167 *
0.0	0	59	330	843	1904	3402	7585	13310 *	19904 *	27212 *
-1.0	0	59	330	844	1901	3401	7606	13303 *	19875 *	27167 *
-3.0	0	59	329	845	1895	3400	7647	13169 *	19688 *	26887 *
-5.0	0	59	328	839	1867	3327	7454	12969 *	19347 *	26371 *
-7.0	0	59	324	834	1840	3267	7237	12680 *	18853 *	25607 *
-9.0	0	59	321	827	1810	3186	6951	12284 *	18216 *	24671 *
-11.0	0	59	318	818	1773	3081	6597	11783 *	17422 *	23607 *
-13.0	0	57	314	806	1729	2954	6177	11159	16497 *	22330 *
-15.0	0	57	309	791	1677	2805	5695	10430	15523 *	20850 *
-17.0	0	56	304	775	1618	2633	5189	9674	14437 *	19405 *
-19.5	0	55	297	752	1535	2504	4601	8624	12987 *	17471 *
-22.5	0	54	289	720	1454	2411	3808	7294	11275	15132 *
-25.5	0	52	279	688	1390	2303	3219	6019	9481	12819 *
-29.0	0	50	266	642	1310	2078	2663	4592	7375	10355
-33.0	0	47	249	588	1183	1790	2401	3265	5187	7418
-37.5	0	44	229	524	1022	1488	2021	2509	3275	4639
-42.5	0	39	204	452	850	1312	1564	2031	2413	2690
-47.5	0	35	178	385	707	1034	1312	1502	1814	2097
-55.0	0	27	140	295	506	715	865	1031	1199	1347
-65.0	0	18	89	184	295	385	452	526	593	645
-75.0	0	11	43	87	138	176	202	227	247	264
-85.0	0	4	11	18	27	34	39	44	48	51
-90.0	0	0	0	0	0	0	0	0	0	0

**IES FLOOD REPORT**  
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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	52	54	56	58	59	60	62	61	61	61
75.0	278	289	298	305	310	313	316	319	321	324
65.0	689	718	750	775	792	807	818	827	833	837
55.0	1411	1460	1525	1608	1669	1724	1772	1811	1842	1866
47.5	2332	2455	2564	2694	2864	3014	3143	3253	3338	3399
42.5	3266	3871	4661	5240	5750	6233	6658	6999	7261	7454
37.5	6076	7336	8627	9628	10359	11097	11736 *	12272 *	12703 *	13031 *
33.0	9501	11264	12951 *	14383 *	15403 *	16350 *	17340 *	18215 *	18873 *	19350 *
29.0	12841 *	15212 *	17543 *	19415 *	20811 *	22223 *	23520 *	24631 *	25594 *	26352 *
25.5	16095 *	19107 *	22093 *	24542 *	26479 *	28295 *	29907 *	31621 *	33079 *	34154 *
22.5	19003 *	22658 *	26371 *	29417 *	31970 *	34480 *	36806 *	39483 *	41653 *	43270 *
19.5	21975 *	26340 *	30848 *	34971 *	38550 *	42457 *	46258 *	50529 *	54085 *	56874 *
17.0	24541 *	29474 *	35011 *	40418 *	45021 *	51013 *	56553 *	62144 *	66997 *	70639 *
15.0	26559 *	32074 *	38586 *	44983 *	51790 *	58588 *	65788 *	72099 *	77050 *	80662 *
13.0	28424 *	34641 *	42386 *	51053 *	58726 *	67134 *	74633 *	80981 *	86075 *	89337 *
11.0	30026 *	37019 *	46160 *	56646 *	66034 *	74745 *	82371 *	88506 *	93248 *	96485 *
9.0	31650 *	39467 *	50416 *	62221 *	72376 *	81076 *	88507 *	94754 *	98841 *	101959 *
7.0	32997 *	41427 *	53730 *	66891 *	77219 *	86245 *	93346 *	98831 *	103250 *	106167 *
5.0	34058 *	43035 *	56290 *	70265 *	80635 *	89514 *	96761 *	102051 *	106098 *	109328 *
3.0	34772 *	44216 *	58561 *	72778 *	83120 *	91746 *	98573 *	103955 *	108278 *	110926 *
1.0	35134 *	45001 *	59931 *	74179 *	84683 *	92996 *	99686 *	104985 *	109154 *	112165 *
0.0	35181 *	45105 *	60265 *	74559 *	84927 *	93201 *	99726 *	104980 *	109140 *	112086 *
-1.0	35134 *	45001 *	59931 *	74179 *	84683 *	92996 *	99686 *	104985 *	109154 *	112165 *
-3.0	34772 *	44216 *	58561 *	72778 *	83120 *	91746 *	98573 *	103955 *	108278 *	110926 *
-5.0	34058 *	43035 *	56290 *	70265 *	80635 *	89514 *	96761 *	102051 *	106098 *	109328 *
-7.0	32997 *	41427 *	53730 *	66891 *	77219 *	86245 *	93346 *	98831 *	103250 *	106167 *
-9.0	31650 *	39467 *	50416 *	62221 *	72376 *	81076 *	88507 *	94754 *	98841 *	101959 *
-11.0	30026 *	37019 *	46160 *	56646 *	66034 *	74745 *	82371 *	88506 *	93248 *	96485 *
-13.0	28424 *	34641 *	42386 *	51053 *	58726 *	67134 *	74633 *	80981 *	86075 *	89337 *
-15.0	26559 *	32074 *	38586 *	44983 *	51790 *	58588 *	65788 *	72099 *	77050 *	80662 *
-17.0	24541 *	29474 *	35011 *	40418 *	45021 *	51013 *	56553 *	62144 *	66997 *	70639 *
-19.5	21975 *	26340 *	30848 *	34971 *	38550 *	42457 *	46258 *	50529 *	54085 *	56874 *
-22.5	19003 *	22658 *	26371 *	29417 *	31970 *	34480 *	36806 *	39483 *	41653 *	43270 *
-25.5	16095 *	19107 *	22093 *	24542 *	26479 *	28295 *	29907 *	31621 *	33079 *	34154 *
-29.0	12841 *	15212 *	17543 *	19415 *	20811 *	22223 *	23520 *	24631 *	25594 *	26352 *
-33.0	9501	11264	12951 *	14383 *	15403 *	16350 *	17340 *	18215 *	18873 *	19350 *
-37.5	6076	7336	8627	9628	10359	11097	11736 *	12272 *	12703 *	13031 *
-42.5	3266	3871	4661	5240	5750	6233	6658	6999	7261	7454
-47.5	2332	2455	2564	2694	2864	3014	3143	3253	3338	3399
-55.0	1411	1460	1525	1608	1669	1724	1772	1811	1842	1866
-65.0	689	718	750	775	792	807	818	827	833	837
-75.0	278	289	298	305	310	313	316	319	321	324
-85.0	52	54	56	58	59	60	62	61	61	61
-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	61	60	60	60	61	61	61	61	62	60
75.0	325	326	327	326	325	324	321	319	316	313
65.0	843	844	844	844	843	837	833	827	818	807

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

55.0	1890	1895	1897	1895	1890	1866	1842	1811	1772	1724
47.5	3472	3490	3499	3490	3472	3399	3338	3253	3143	3014
42.5	7663	7678	7685	7678	7663	7454	7261	6999	6658	6233
37.5	13251 *	13297 *	13260 *	13297 *	13251 *	13031 *	12703 *	12272 *	11736 *	11097
33.0	19671 *	19818 *	19828 *	19818 *	19671 *	19350 *	18873 *	18215 *	17340 *	16350 *
29.0	26858 *	27137 *	27189 *	27137 *	26858 *	26352 *	25594 *	24631 *	23520 *	22223 *
25.5	34862 *	35336 *	35483 *	35336 *	34862 *	34154 *	33079 *	31621 *	29907 *	28295 *
22.5	44331 *	45074 *	45229 *	45074 *	44331 *	43270 *	41653 *	39483 *	36806 *	34480 *
19.5	58764 *	59913 *	60311 *	59913 *	58764 *	56874 *	54085 *	50529 *	46258 *	42457 *
17.0	72939 *	74266 *	74859 *	74266 *	72939 *	70639 *	66997 *	62144 *	56553 *	51013 *
15.0	83209 *	84894 *	85177 *	84894 *	83209 *	80662 *	77050 *	72099 *	65788 *	58588 *
13.0	91665 *	92899 *	93355 *	92899 *	91665 *	89337 *	86075 *	80981 *	74633 *	67134 *
11.0	98579 *	99575 *	99930 *	99575 *	98579 *	96485 *	93248 *	88506 *	82371 *	74745 *
9.0	103983 *	105010 *	105229 *	105010 *	103983 *	101959 *	98841 *	94754 *	88507 *	81076 *
7.0	108135 *	109187 *	109343 *	109187 *	108135 *	106167 *	103250 *	98831 *	93346 *	86245 *
5.0	110868 *	111999 *	112136 *	111999 *	110868 *	109328 *	106098 *	102051 *	96761 *	89514 *
3.0	112520 *	112775 *	112982 *	112775 *	112520 *	110926 *	108278 *	103955 *	98573 *	91746 *
1.0	112885 *	113080 *	113030 *	113080 *	112885 *	112165 *	109154 *	104985 *	99686 *	92996 *
0.0	112908 *	112997 *	112920 *	112997 *	112908 *	112086 *	109140 *	104980 *	99726 *	93201 *
-1.0	112885 *	113080 *	113030 *	113080 *	112885 *	112165 *	109154 *	104985 *	99686 *	92996 *
-3.0	112520 *	112775 *	112982 *	112775 *	112520 *	110926 *	108278 *	103955 *	98573 *	91746 *
-5.0	110868 *	111999 *	112136 *	111999 *	110868 *	109328 *	106098 *	102051 *	96761 *	89514 *
-7.0	108135 *	109187 *	109343 *	109187 *	108135 *	106167 *	103250 *	98831 *	93346 *	86245 *
-9.0	103983 *	105010 *	105229 *	105010 *	103983 *	101959 *	98841 *	94754 *	88507 *	81076 *
-11.0	98579 *	99575 *	99930 *	99575 *	98579 *	96485 *	93248 *	88506 *	82371 *	74745 *
-13.0	91665 *	92899 *	93355 *	92899 *	91665 *	89337 *	86075 *	80981 *	74633 *	67134 *
-15.0	83209 *	84894 *	85177 *	84894 *	83209 *	80662 *	77050 *	72099 *	65788 *	58588 *
-17.0	72939 *	74266 *	74859 *	74266 *	72939 *	70639 *	66997 *	62144 *	56553 *	51013 *
-19.5	58764 *	59913 *	60311 *	59913 *	58764 *	56874 *	54085 *	50529 *	46258 *	42457 *
-22.5	44331 *	45074 *	45229 *	45074 *	44331 *	43270 *	41653 *	39483 *	36806 *	34480 *
-25.5	34862 *	35336 *	35483 *	35336 *	34862 *	34154 *	33079 *	31621 *	29907 *	28295 *
-29.0	26858 *	27137 *	27189 *	27137 *	26858 *	26352 *	25594 *	24631 *	23520 *	22223 *
-33.0	19671 *	19818 *	19828 *	19818 *	19671 *	19350 *	18873 *	18215 *	17340 *	16350 *
-37.5	13251 *	13297 *	13260 *	13297 *	13251 *	13031 *	12703 *	12272 *	11736 *	11097
-42.5	7663	7678	7685	7678	7663	7454	7261	6999	6658	6233
-47.5	3472	3490	3499	3490	3472	3399	3338	3253	3143	3014
-55.0	1890	1895	1897	1895	1890	1866	1842	1811	1772	1724
-65.0	843	844	844	844	843	837	833	827	818	807
-75.0	325	326	327	326	325	324	321	319	316	313
-85.0	61	60	60	60	61	61	61	61	62	60
-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	59	58	56	54	52	51	48	44	39	34
75.0	310	305	298	289	278	264	247	227	202	176
65.0	792	775	750	718	689	645	593	526	452	385
55.0	1669	1608	1525	1460	1411	1347	1199	1031	865	715
47.5	2864	2694	2564	2455	2332	2097	1814	1502	1312	1034
42.5	5750	5240	4661	3871	3266	2690	2413	2031	1564	1312
37.5	10359	9628	8627	7336	6076	4639	3275	2509	2021	1488
33.0	15403 *	14383 *	12951 *	11264	9501	7418	5187	3265	2401	1790
29.0	20811 *	19415 *	17543 *	15212 *	12841 *	10355	7375	4592	2663	2078
25.5	26479 *	24542 *	22093 *	19107 *	16095 *	12819 *	9481	6019	3219	2303

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

22.5	31970 *	29417 *	26371 *	22658 *	19003 *	15132 *	11275	7294	3808	2411
19.5	38550 *	34971 *	30848 *	26340 *	21975 *	17471 *	12987 *	8624	4601	2504
17.0	45021 *	40418 *	35011 *	29474 *	24541 *	19405 *	14437 *	9674	5189	2633
15.0	51790 *	44983 *	38586 *	32074 *	26559 *	20850 *	15523 *	10430	5695	2805
13.0	58726 *	51053 *	42386 *	34641 *	28424 *	22330 *	16497 *	11159	6177	2954
11.0	66034 *	56646 *	46160 *	37019 *	30026 *	23607 *	17422 *	11783 *	6597	3081
9.0	72376 *	62221 *	50416 *	39467 *	31650 *	24671 *	18216 *	12284 *	6951	3186
7.0	77219 *	66891 *	53730 *	41427 *	32997 *	25607 *	18853 *	12680 *	7237	3267
5.0	80635 *	70265 *	56290 *	43035 *	34058 *	26371 *	19347 *	12969 *	7454	3327
3.0	83120 *	72778 *	58561 *	44216 *	34772 *	26887 *	19688 *	13169 *	7647	3400
1.0	84683 *	74179 *	59931 *	45001 *	35134 *	27167 *	19875 *	13303 *	7606	3401
0.0	84927 *	74559 *	60265 *	45105 *	35181 *	27212 *	19904 *	13310 *	7585	3402
-1.0	84683 *	74179 *	59931 *	45001 *	35134 *	27167 *	19875 *	13303 *	7606	3401
-3.0	83120 *	72778 *	58561 *	44216 *	34772 *	26887 *	19688 *	13169 *	7647	3400
-5.0	80635 *	70265 *	56290 *	43035 *	34058 *	26371 *	19347 *	12969 *	7454	3327
-7.0	77219 *	66891 *	53730 *	41427 *	32997 *	25607 *	18853 *	12680 *	7237	3267
-9.0	72376 *	62221 *	50416 *	39467 *	31650 *	24671 *	18216 *	12284 *	6951	3186
-11.0	66034 *	56646 *	46160 *	37019 *	30026 *	23607 *	17422 *	11783 *	6597	3081
-13.0	58726 *	51053 *	42386 *	34641 *	28424 *	22330 *	16497 *	11159	6177	2954
-15.0	51790 *	44983 *	38586 *	32074 *	26559 *	20850 *	15523 *	10430	5695	2805
-17.0	45021 *	40418 *	35011 *	29474 *	24541 *	19405 *	14437 *	9674	5189	2633
-19.5	38550 *	34971 *	30848 *	26340 *	21975 *	17471 *	12987 *	8624	4601	2504
-22.5	31970 *	29417 *	26371 *	22658 *	19003 *	15132 *	11275	7294	3808	2411
-25.5	26479 *	24542 *	22093 *	19107 *	16095 *	12819 *	9481	6019	3219	2303
-29.0	20811 *	19415 *	17543 *	15212 *	12841 *	10355	7375	4592	2663	2078
-33.0	15403 *	14383 *	12951 *	11264	9501	7418	5187	3265	2401	1790
-37.5	10359	9628	8627	7336	6076	4639	3275	2509	2021	1488
-42.5	5750	5240	4661	3871	3266	2690	2413	2031	1564	1312
-47.5	2864	2694	2564	2455	2332	2097	1814	1502	1312	1034
-55.0	1669	1608	1525	1460	1411	1347	1199	1031	865	715
-65.0	792	775	750	718	689	645	593	526	452	385
-75.0	310	305	298	289	278	264	247	227	202	176
-85.0	59	58	56	54	52	51	48	44	39	34
-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	27	18	11	4	0
75.0	138	87	43	11	0
65.0	295	184	89	18	0
55.0	506	295	140	27	0
47.5	707	385	178	35	0
42.5	850	452	204	39	0
37.5	1022	524	229	44	0
33.0	1183	588	249	47	0
29.0	1310	642	266	50	0
25.5	1390	688	279	52	0
22.5	1454	720	289	54	0
19.5	1535	752	297	55	0
17.0	1618	775	304	56	0
15.0	1677	791	309	57	0
13.0	1729	806	314	57	0
11.0	1773	818	318	59	0
9.0	1810	827	321	59	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-MWF-40.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	1840	834	324	59	0
<b>5.0</b>	1867	839	328	59	0
<b>3.0</b>	1895	845	329	59	0
<b>1.0</b>	1901	844	330	59	0
<b>0.0</b>	1904	843	330	59	0
<b>-1.0</b>	1901	844	330	59	0
<b>-3.0</b>	1895	845	329	59	0
<b>-5.0</b>	1867	839	328	59	0
<b>-7.0</b>	1840	834	324	59	0
<b>-9.0</b>	1810	827	321	59	0
<b>-11.0</b>	1773	818	318	59	0
<b>-13.0</b>	1729	806	314	57	0
<b>-15.0</b>	1677	791	309	57	0
<b>-17.0</b>	1618	775	304	56	0
<b>-19.5</b>	1535	752	297	55	0
<b>-22.5</b>	1454	720	289	54	0
<b>-25.5</b>	1390	688	279	52	0
<b>-29.0</b>	1310	642	266	50	0
<b>-33.0</b>	1183	588	249	47	0
<b>-37.5</b>	1022	524	229	44	0
<b>-42.5</b>	850	452	204	39	0
<b>-47.5</b>	707	385	178	35	0
<b>-55.0</b>	506	295	140	27	0
<b>-65.0</b>	295	184	89	18	0
<b>-75.0</b>	138	87	43	11	0
<b>-85.0</b>	27	18	11	4	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-MWF-40.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 34301.17

Total Field Lumens (one side of beam only) = 30124.01

\* 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	0.05	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10
75	0.59	1.18	1.17	1.16	1.15	1.14	1.12	1.10	1.07	1.30
65	1.78	3.56	3.54	3.51	3.47	3.42	3.36	3.28	3.19	3.85
55	4.17	8.33	8.26	8.15	8.01	7.84	7.63	7.38	7.09	8.42
47.5	6.16	12.27	12.11	11.87	11.59	11.23	10.79	10.28	9.70	11.38
42.5	8.51	16.97	16.70	16.25	15.72	15.04	14.19	13.20	12.11	13.70
37.5	15.96	31.88	31.45	30.63	29.59	28.25	26.61	24.71	22.68	25.45
33	22.69 *	45.23 *	44.65 *	43.59 *	42.12 *	40.20 *	37.89 *	35.38 *	32.79 *	37.09 *
29	28.62 *	56.92 *	56.05 *	54.63 *	52.67 *	50.22 *	47.33 *	44.21 *	41.00 *	46.49 *
25.5	33.35 *	66.16 *	64.99 *	63.18 *	60.66 *	57.58 *	54.20 *	50.59 *	46.76 *	52.90 *
22.5	36.81 *	72.88 *	71.38 *	69.14 *	65.98 *	62.01 *	57.87 *	53.74 *	49.37 *	55.55 *
19.5	48.10 *	95.02 *	92.63 *	89.01 *	84.04 *	77.88 *	71.51 *	65.37 *	59.25 *	65.96 *
17	51.28 *	101.17 *	98.46 *	94.13 *	88.14 *	80.80 *	73.10 *	65.41 *	58.18 *	63.84 *
15	48.61 *	95.98 *	93.42 *	89.47 *	83.94 *	76.97 *	69.11 *	61.01 *	53.35 *	57.49 *
13	54.27 *	107.36 *	104.79 *	100.91 *	95.38 *	88.04 *	79.30 *	69.82 *	60.48 *	64.00 *
11	58.75 *	116.51 *	114.27 *	110.61 *	105.21 *	97.94 *	89.05 *	78.81 *	68.06 *	70.96 *
9	62.40 *	123.94 *	121.85 *	118.31 *	113.22 *	106.23 *	97.34 *	86.96 *	75.33 *	77.90 *
7	65.30 *	129.78 *	127.70 *	124.27 *	119.35 *	112.62 *	104.03 *	93.67 *	81.61 *	84.34 *
5	67.42 *	134.00 *	132.03 *	128.70 *	123.74 *	117.29 *	109.01 *	98.60 *	86.38 *	89.38 *
3	68.52 *	136.43 *	134.81 *	131.66 *	126.80 *	120.39 *	112.20 *	101.97 *	89.83 *	93.25 *
1	68.82 *	137.37 *	136.28 *	133.45 *	128.61 *	122.15 *	114.11 *	104.20 *	92.16 *	95.98 *
0	34.42 *	68.78 *	68.38 *	67.03 *	64.59 *	61.40 *	57.45 *	52.58 *	46.61 *	48.62 *
-1	34.42 *	68.78 *	68.38 *	67.03 *	64.59 *	61.40 *	57.45 *	52.58 *	46.61 *	48.62 *
	68.82 *	137.37 *	136.28 *	133.45 *	128.61 *	122.15 *	114.11 *	104.20 *	92.16 *	95.98 *

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-MWF-40.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	68.52 *	136.43 *	134.81 *	131.66 *	126.80 *	120.39 *	112.20 *	101.97 *	89.83 *	93.25 *
<b>-5</b>	67.42 *	134.00 *	132.03 *	128.70 *	123.74 *	117.29 *	109.01 *	98.60 *	86.38 *	89.38 *
<b>-7</b>	65.30 *	129.78 *	127.70 *	124.27 *	119.35 *	112.62 *	104.03 *	93.67 *	81.61 *	84.34 *
<b>-9</b>	62.40 *	123.94 *	121.85 *	118.31 *	113.22 *	106.23 *	97.34 *	86.96 *	75.33 *	77.90 *
<b>-11</b>	58.75 *	116.51 *	114.27 *	110.61 *	105.21 *	97.94 *	89.05 *	78.81 *	68.06 *	70.96 *
<b>-13</b>	54.27 *	107.36 *	104.79 *	100.91 *	95.38 *	88.04 *	79.30 *	69.82 *	60.48 *	64.00 *
<b>-15</b>	48.61 *	95.98 *	93.42 *	89.47 *	83.94 *	76.97 *	69.11 *	61.01 *	53.35 *	57.49 *
<b>-17</b>	51.28 *	101.17 *	98.46 *	94.13 *	88.14 *	80.80 *	73.10 *	65.41 *	58.18 *	63.84 *
<b>-19.5</b>	48.10 *	95.02 *	92.63 *	89.01 *	84.04 *	77.88 *	71.51 *	65.37 *	59.25 *	65.96 *
<b>-22.5</b>	36.81 *	72.88 *	71.38 *	69.14 *	65.98 *	62.01 *	57.87 *	53.74 *	49.37 *	55.55 *
<b>-25.5</b>	33.35 *	66.16 *	64.99 *	63.18 *	60.66 *	57.58 *	54.20 *	50.59 *	46.76 *	52.90 *
<b>-29</b>	28.62 *	56.92 *	56.05 *	54.63 *	52.67 *	50.22 *	47.33 *	44.21 *	41.00 *	46.49 *
<b>-33</b>	22.69 *	45.23 *	44.65 *	43.59 *	42.12 *	40.20 *	37.89 *	35.38 *	32.79 *	37.09 *
<b>-37.5</b>	15.96	31.88	31.45	30.63	29.59	28.25	26.61	24.71	22.68	25.45
<b>-42.5</b>	8.51	16.97	16.70	16.25	15.72	15.04	14.19	13.20	12.11	13.70
<b>-47.5</b>	6.16	12.27	12.11	11.87	11.59	11.23	10.79	10.28	9.70	11.38
<b>-55</b>	4.17	8.33	8.26	8.15	8.01	7.84	7.63	7.38	7.09	8.42
<b>-65</b>	1.78	3.56	3.54	3.51	3.47	3.42	3.36	3.28	3.19	3.85
<b>-75</b>	0.59	1.18	1.17	1.16	1.15	1.14	1.12	1.10	1.07	1.30
<b>-85</b>	0.05	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10
<b>-90</b>										
<b>Total</b>	1573.17	3123.59	3070.01	2979.51	2848.19	2677.44	2474.56	2244.67	1994.18	2135.94

**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>	0.12	0.11	0.12	0.13	0.13	0.12	0.10	0.11	0.09	0.04
<b>85</b>	1.49	1.40	1.53	1.59	1.58	1.49	1.21	1.34	1.03	0.41
<b>75</b>	4.38	4.12	4.44	4.57	4.46	4.10	3.27	3.55	2.68	1.05
<b>65</b>	9.50	8.93	9.69	9.88	9.37	8.38	6.51	6.79	4.87	1.84
<b>55</b>	12.80	11.99	12.77	12.64	11.64	10.30	7.93	7.94	5.40	1.95

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

<b>47.5</b>	14.45	12.44	12.30	11.77	10.86	9.34	7.03	6.97	4.55	1.59
<b>42.5</b>	26.12	21.44	19.75	16.99	14.31	11.85	8.59	8.35	5.42	1.83
<b>37.5</b>	38.56	32.10	29.46	24.10	17.92	13.38	9.33	8.81	5.68	1.86
<b>33</b>	48.60 *	40.75 *	38.02	31.68	22.85	15.07	9.62	9.09	5.66	1.82
<b>29</b>	55.20 *	46.20 *	43.21 *	36.58	26.90	16.83	9.67	8.85	5.36	1.71
<b>25.5</b>	57.73 *	48.12 *	44.81 *	38.15 *	28.60	17.79	9.48	8.10	4.85	1.54
<b>22.5</b>	67.96 *	56.33 *	52.30 *	44.53 *	33.73	21.28	10.76	8.47	5.09	1.61
<b>19.5</b>	64.87 *	53.39 *	49.39 *	41.96 *	31.98 *	20.48	10.04	7.40	4.45	1.38
<b>17</b>	57.64 *	47.02 *	43.29 *	36.66 *	28.01 *	18.07	8.79	6.24	3.70	1.13
<b>15</b>	62.99 *	50.79 *	46.51 *	39.26 *	30.00 *	19.51	9.49	6.55	3.81	1.15
<b>13</b>	68.33 *	54.30 *	49.46 *	41.69 *	31.82 *	20.83	10.13	6.81	3.90	1.17
<b>11</b>	73.82 *	57.67 *	52.10 *	43.81 *	33.41 *	21.94	10.67	7.04	3.98	1.19
<b>9</b>	78.92 *	60.75 *	54.46 *	45.60 *	34.71 *	22.83	11.11	7.22	4.04	1.20
<b>7</b>	82.95 *	63.24 *	56.40 *	47.08 *	35.73 *	23.53	11.46	7.36	4.09	1.21
<b>5</b>	86.20 *	65.14 *	57.85 *	48.19 *	36.47 *	24.05	11.75	7.49	4.14	1.22
<b>3</b>	88.59 *	66.41 *	58.74 *	48.88 *	36.95 *	24.33	11.87	7.57	4.17	1.22
<b>1</b>	44.85 *	33.48 *	29.54 *	24.58 *	18.58 *	12.19	5.92	3.79	2.09	0.61
<b>0</b>	44.85 *	33.48 *	29.54 *	24.58 *	18.58 *	12.19	5.92	3.79	2.09	0.61
<b>-1</b>	88.59 *	66.41 *	58.74 *	48.88 *	36.95 *	24.33	11.87	7.57	4.17	1.22
<b>-3</b>	86.20 *	65.14 *	57.85 *	48.19 *	36.47 *	24.05	11.75	7.49	4.14	1.22
<b>-5</b>	82.95 *	63.24 *	56.40 *	47.08 *	35.73 *	23.53	11.46	7.36	4.09	1.21
<b>-7</b>	78.92 *	60.75 *	54.46 *	45.60 *	34.71 *	22.83	11.11	7.22	4.04	1.20
<b>-9</b>	73.82 *	57.67 *	52.10 *	43.81 *	33.41 *	21.94	10.67	7.04	3.98	1.19
<b>-11</b>	68.33 *	54.30 *	49.46 *	41.69 *	31.82 *	20.83	10.13	6.81	3.90	1.17
<b>-13</b>	62.99 *	50.79 *	46.51 *	39.26 *	30.00 *	19.51	9.49	6.55	3.81	1.15
<b>-15</b>	57.64 *	47.02 *	43.29 *	36.66 *	28.01 *	18.07	8.79	6.24	3.70	1.13
<b>-17</b>	64.87 *	53.39 *	49.39 *	41.96 *	31.98 *	20.48	10.04	7.40	4.45	1.38
<b>-19.5</b>	67.96 *	56.33 *	52.30 *	44.53 *	33.73	21.28	10.76	8.47	5.09	1.61

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-MWF-40.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	57.73 *	48.12 *	44.81 *	38.15 *	28.60	17.79	9.48	8.10	4.85	1.54
<b>-25.5</b>	55.20 *	46.20 *	43.21 *	36.58	26.90	16.83	9.67	8.85	5.36	1.71
<b>-29</b>	48.60 *	40.75 *	38.02	31.68	22.85	15.07	9.62	9.09	5.66	1.82
<b>-33</b>	38.56	32.10	29.46	24.10	17.92	13.38	9.33	8.81	5.68	1.86
<b>-37.5</b>	26.12	21.44	19.75	16.99	14.31	11.85	8.59	8.35	5.42	1.83
<b>-42.5</b>	14.45	12.44	12.30	11.77	10.86	9.34	7.03	6.97	4.55	1.59
<b>-47.5</b>	12.80	11.99	12.77	12.64	11.64	10.30	7.93	7.94	5.40	1.95
<b>-55</b>	9.50	8.93	9.69	9.88	9.37	8.38	6.51	6.79	4.87	1.84
<b>-65</b>	4.38	4.12	4.44	4.57	4.46	4.10	3.27	3.55	2.68	1.05
<b>-75</b>	1.49	1.40	1.53	1.59	1.58	1.49	1.21	1.34	1.03	0.41
<b>-85</b>	0.12	0.11	0.12	0.13	0.13	0.12	0.10	0.11	0.09	0.04
<b>-90</b>										
<b>Total</b>	2092.15	1672.24	1532.33	1300.66	999.99	675.41	369.42	291.70	178.06	57.47

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
<b>90</b>			
	0.01	0.00	1.94
<b>85</b>			
	0.09	0.00	24.14
<b>75</b>			
	0.21	0.00	69.79
<b>65</b>			
	0.36	0.01	151.40
<b>55</b>			
	0.38	0.01	203.08
<b>47.5</b>			
	0.30	0.01	234.00
<b>42.5</b>			
	0.34	0.01	402.19
<b>37.5</b>			
	0.34	0.01	563.18
<b>33</b>			
	0.32	0.01	701.63
<b>29</b>			
	0.30	0.01	801.19
<b>25.5</b>			
	0.27	0.01	854.19
<b>22.5</b>			
	0.28	0.01	1051.1
<b>19.5</b>			
	0.24	0.00	1060.1
<b>17</b>			
	0.19	0.00	980.11

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-MWF-40.IES**

**LUMENS TABULATION - (Cont.)**

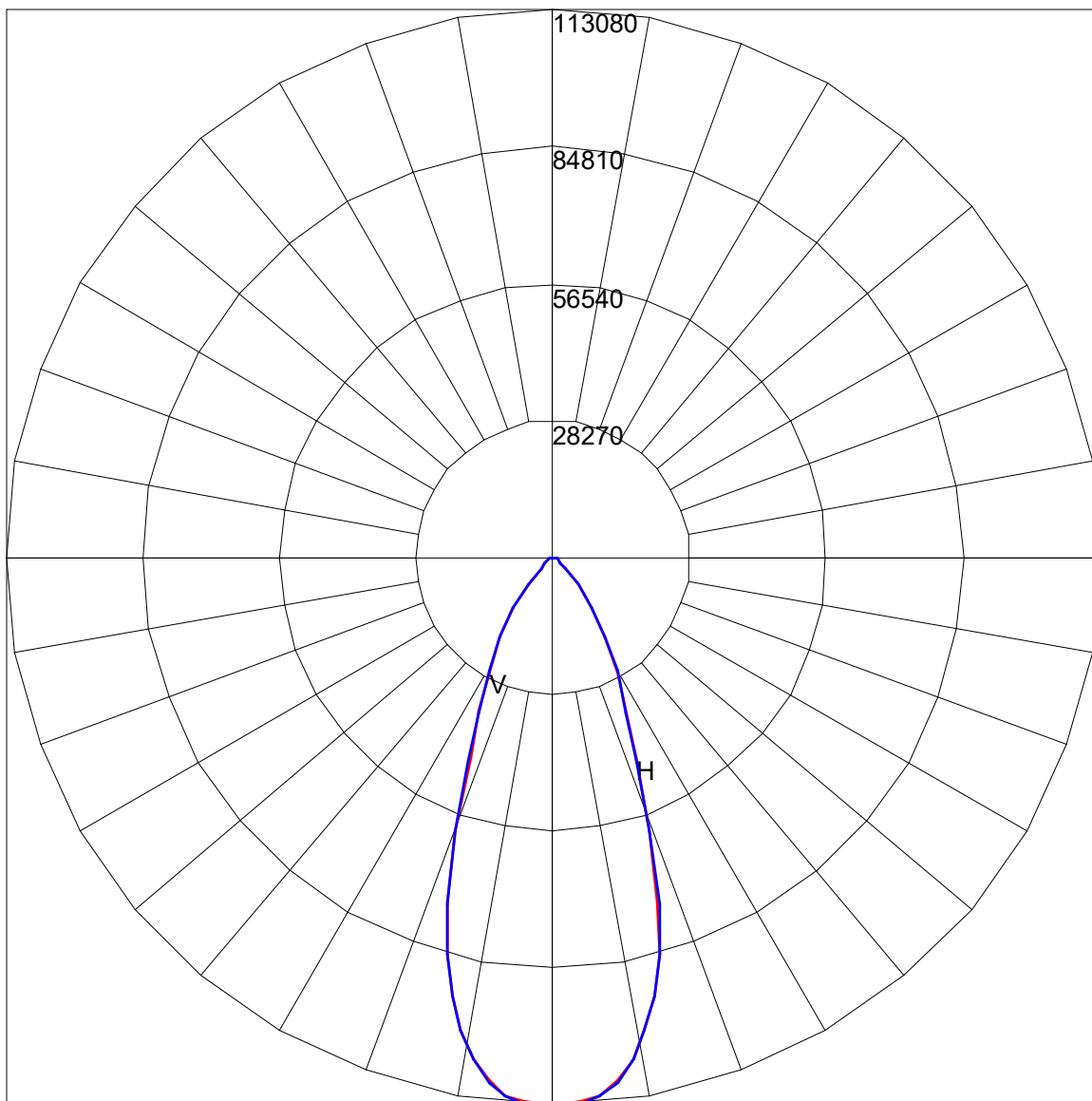
<b>15</b>			
	0.19	0.00	1094.63
<b>13</b>			
	0.20	0.00	1198.83
<b>11</b>			
	0.20	0.00	1289.3
<b>9</b>			
	0.20	0.00	1363.72
<b>7</b>			
	0.20	0.00	1419.8
<b>5</b>			
	0.20	0.00	1458.59
<b>3</b>			
	0.21	0.00	1482.09
<b>1</b>			
	0.10	0.00	745.58
<b>0</b>			
	0.10	0.00	745.58
<b>-1</b>			
	0.21	0.00	1482.09
<b>-3</b>			
	0.20	0.00	1458.59
<b>-5</b>			
	0.20	0.00	1419.8
<b>-7</b>			
	0.20	0.00	1363.72
<b>-9</b>			
	0.20	0.00	1289.3
<b>-11</b>			
	0.20	0.00	1198.83
<b>-13</b>			
	0.19	0.00	1094.63
<b>-15</b>			
	0.19	0.00	980.11
<b>-17</b>			
	0.24	0.00	1060.1
<b>-19.5</b>			
	0.28	0.01	1051.1
<b>-22.5</b>			
	0.27	0.01	854.19
<b>-25.5</b>			
	0.30	0.01	801.19
<b>-29</b>			
	0.32	0.01	701.63
<b>-33</b>			
	0.34	0.01	563.18
<b>-37.5</b>			
	0.34	0.01	402.19
<b>-42.5</b>			
	0.30	0.01	234.00
<b>-47.5</b>			
	0.38	0.01	203.08
<b>-55</b>			
	0.36	0.01	151.40
<b>-65</b>			
	0.21	0.00	69.79

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-MWF-40.IES**

**LUMENS TABULATION - (Cont.)**

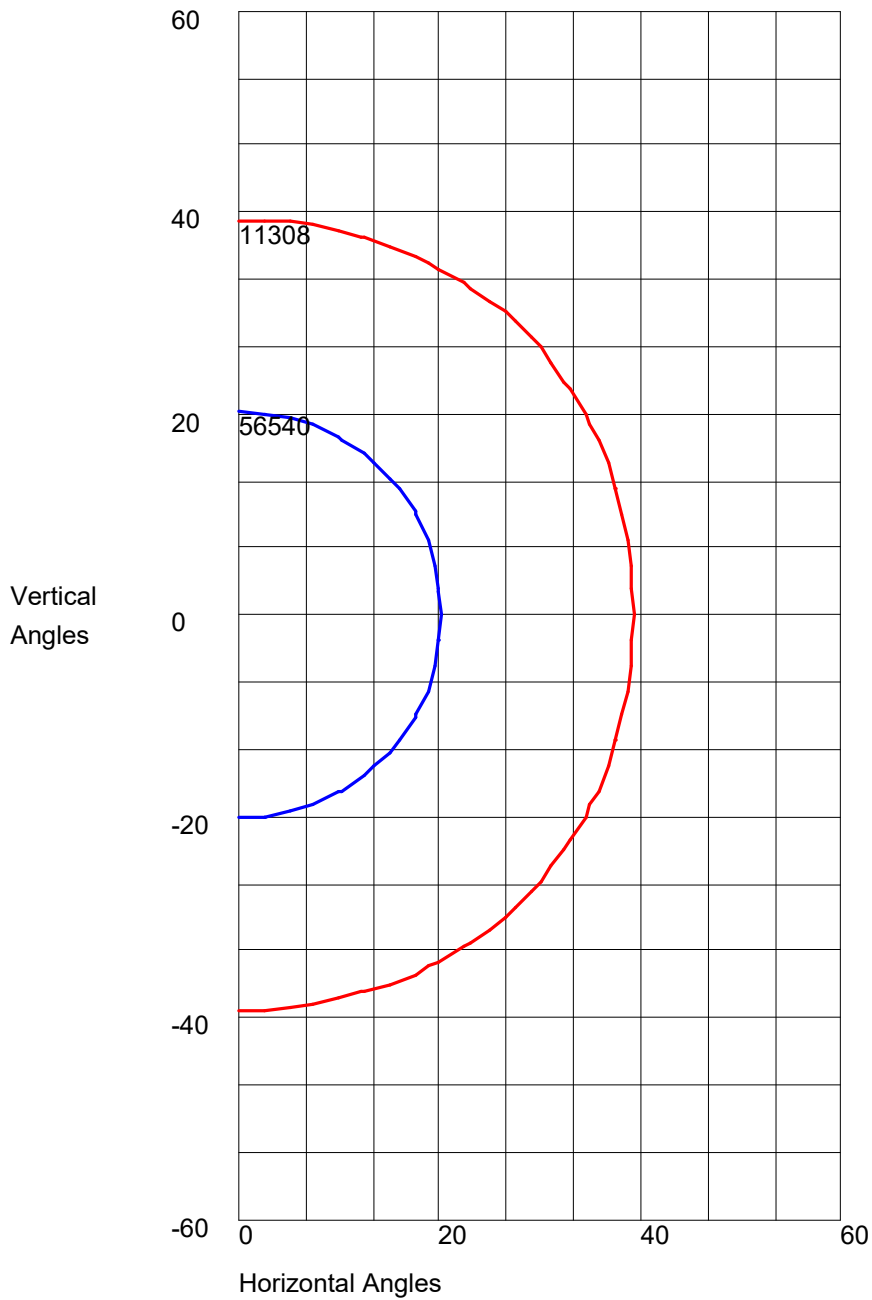
<b>-75</b>	0.09	0.00	24.14
<b>-85</b>	0.01	0.00	1.94
<b>-90</b>			
<b>Total</b>	10.27	0.21	34301.17

AXIAL CANDELA DISPLAY



Maximum Candela = 113080 Located At Horizontal Angle =-1, Vertical Angle =-1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 113080 Located At Horizontal Angle =-1, Vertical Angle =-1  
50% Maximum Candela = 56540  
10% Maximum Candela = 11308