



## IES FLOOD REPORT

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

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13023  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUEDATE] 06/30/22  
[TESTDATE] 10/25/21  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-100L-MF-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	4 H x 4 V
Maximum Candela	253464
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	32.4
Vertical Beam Angle (50%)	32.5
Horizontal Field Angle (10%)	59.8
Vertical Field Angle (10%)	59.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	48831
Beam Efficiency	N.A.
Field Lumens	81819
Field Efficiency	N.A.
Spill Lumens	19819
Luminaire Lumens	101638
Total Efficiency	N.A.
Total Luminaire Watts	765.3
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	146	85	147
75	607	75	595
65	1339	65	1338
55	2974	55	2940
47.5	4738	47.5	4747
42.5	7380	42.5	7404
37.5	12353	37.5	12258
33	18805	33	18568
29	27335	29	27280
25.5	41097	25.5	41120
22.5	59030	22.5	58514
19.5	84494	19.5	84795
17	115003	17	116615
15	144971	15	146029
13	173822	13	174595
11	197956	11	198588
9	217897	9	218248
7	233999	7	233882
5	246450	5	245865
3	252068	3	251951
1	253370	1	253370
0	253302	0	253302
-1	253370	-1	253370
-3	252068	-3	251951
-5	246450	-5	245865
-7	233999	-7	233882
-9	217897	-9	218248
-11	197956	-11	198588
-13	173822	-13	174595
-15	144971	-15	146029
-17	115003	-17	116615
-19.5	84494	-19.5	84795
-22.5	59030	-22.5	58514
-25.5	41097	-25.5	41120
-29	27335	-29	27280
-33	18805	-33	18568
-37.5	12353	-37.5	12258
-42.5	7380	-42.5	7404
-47.5	4738	-47.5	4747
-55	2974	-55	2940
-65	1339	-65	1338
-75	607	-75	595
-85	146	-85	147
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 253464

Beam Edge = 126732 Cd (50% of Max.)

Field Edge = 25346.4 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>-90.0</u></b>	<b><u>-85.0</u></b>	<b><u>-75.0</u></b>	<b><u>-65.0</u></b>	<b><u>-55.0</u></b>	<b><u>-47.5</u></b>	<b><u>-42.5</u></b>	<b><u>-37.5</u></b>	<b><u>-33.0</u></b>	<b><u>-29.0</u></b>
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	12	35	54	74	89	99	109	116	121
<b>75.0</b>	0	35	109	191	280	350	391	430	465	501
<b>65.0</b>	0	57	194	365	547	669	759	859	954	1037
<b>55.0</b>	0	80	286	561	842	1134	1353	1596	1829	2042
<b>47.5</b>	0	96	353	686	1134	1594	1988	2440	2785	3193
<b>42.5</b>	0	106	397	772	1353	2000	2496	3089	3697	4134
<b>37.5</b>	0	115	437	866	1588	2403	3085	3885	4595	5433
<b>33.0</b>	0	122	469	958	1826	2776	3691	4608	5747	7282
<b>29.0</b>	0	127	499	1037	2025	3179	4144	5431	7286	9629
<b>25.5</b>	0	132	522	1106	2190	3508	4603	6347	8923	11942
<b>22.5</b>	0	135	539	1152	2321	3731	5001	7258	10444	14205
<b>19.5</b>	0	138	555	1200	2457	3923	5450	8244	11992	16451
<b>17.0</b>	0	140	567	1235	2572	4079	5791	9023	13351	18341
<b>15.0</b>	0	141	575	1259	2654	4220	6122	9586	14387	19816
<b>13.0</b>	0	142	582	1281	2728	4345	6443	10251	15303	21392
<b>11.0</b>	0	146	589	1299	2793	4453	6720	10835	16222	22729
<b>9.0</b>	0	146	594	1314	2849	4544	6953	11317	17051	23821
<b>7.0</b>	0	146	599	1325	2895	4617	7140	11699	17712	24983
<b>5.0</b>	0	146	606	1333	2930	4673	7280	11980	18201	26089 *
<b>3.0</b>	0	146	606	1341	2966	4736	7415	12184	18528	26831 *
<b>1.0</b>	0	146	607	1340	2971	4737	7392	12334	18753	27260 *
<b>0.0</b>	0	146	607	1339	2974	4738	7380	12353	18805	27335 *
<b>-1.0</b>	0	146	607	1340	2971	4737	7392	12334	18753	27260 *
<b>-3.0</b>	0	146	606	1341	2966	4736	7415	12184	18528	26831 *
<b>-5.0</b>	0	146	606	1333	2930	4673	7280	11980	18201	26089 *
<b>-7.0</b>	0	146	599	1325	2895	4617	7140	11699	17712	24983
<b>-9.0</b>	0	146	594	1314	2849	4544	6953	11317	17051	23821
<b>-11.0</b>	0	146	589	1299	2793	4453	6720	10835	16222	22729
<b>-13.0</b>	0	142	582	1281	2728	4345	6443	10251	15303	21392
<b>-15.0</b>	0	141	575	1259	2654	4220	6122	9586	14387	19816
<b>-17.0</b>	0	140	567	1235	2572	4079	5791	9023	13351	18341
<b>-19.5</b>	0	138	555	1200	2457	3923	5450	8244	11992	16451
<b>-22.5</b>	0	135	539	1152	2321	3731	5001	7258	10444	14205
<b>-25.5</b>	0	132	522	1106	2190	3508	4603	6347	8923	11942
<b>-29.0</b>	0	127	499	1037	2025	3179	4144	5431	7286	9629
<b>-33.0</b>	0	122	469	958	1826	2776	3691	4608	5747	7282
<b>-37.5</b>	0	115	437	866	1588	2403	3085	3885	4595	5433
<b>-42.5</b>	0	106	397	772	1353	2000	2496	3089	3697	4134
<b>-47.5</b>	0	96	353	686	1134	1594	1988	2440	2785	3193
<b>-55.0</b>	0	80	286	561	842	1134	1353	1596	1829	2042
<b>-65.0</b>	0	57	194	365	547	669	759	859	954	1037
<b>-75.0</b>	0	35	109	191	280	350	391	430	465	501
<b>-85.0</b>	0	12	35	54	74	89	99	109	116	121
<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	125	129	133	136	139	141	145	146	146	147
75.0	531	548	560	568	573	578	583	587	589	594
65.0	1106	1150	1198	1234	1260	1282	1299	1314	1325	1332
55.0	2202	2317	2428	2535	2614	2687	2756	2815	2864	2902
47.5	3541	3773	3986	4140	4265	4376	4473	4560	4627	4674
42.5	4589	5005	5467	5798	6117	6429	6699	6930	7122	7269
37.5	6358	7250	8217	8983	9545	10219	10805	11302	11717	12038
33.0	8939	10489	12079	13409	14411	15315	16202	17012	17685	18191
29.0	12017	14225	16479	18382	19781	21234	22565	23712	24915	26023 *
25.5	15067	17971	21075	23661	26279 *	28959 *	31308 *	34300 *	36979 *	38975 *
22.5	17951	21627	26050 *	30628 *	35032 *	39563 *	43721 *	48492 *	52473 *	55423 *
19.5	20969	26033 *	32898 *	40403 *	46812 *	53563 *	60209 *	67624 *	73584 *	78028 *
17.0	23669	30856 *	40597 *	50162 *	58203 *	68276 *	77690 *	88864 *	98598 *	105846 *
15.0	26490 *	35342 *	47155 *	58423 *	69708 *	81665 *	96174 *	109203 *	123056 *	133390 *
13.0	29340 *	39969 *	53933 *	68363 *	81537 *	98787 *	116153 *	133605 *	149044 *	160871 *
11.0	31695 *	44188 *	60380 *	77310 *	95667 *	115901 *	137796 *	157019 *	173990 *	186039 *
9.0	34520 *	48626 *	67258 *	88191 *	108591 *	133831 *	157251 *	178271 *	194293 *	206442 *
7.0	36973 *	52230 *	72707 *	97661 *	122498 *	149061 *	173984 *	194177 *	211796 *	222087 *
5.0	38933 *	55201 *	76926 *	104733 *	133148 *	160807 *	186085 *	206555 *	221678 *	234381 *
3.0	40258 *	57415 *	81375 *	110738 *	140494 *	168945 *	193770 *	214340 *	230369 *	241261 *
1.0	40977 *	58861 *	84003 *	114284 *	144578 *	172822 *	197743 *	218141 *	234037 *	246459 *
0.0	41097 *	59030 *	84494 *	115003 *	144971 *	173822 *	197956 *	217897 *	233999 *	246450 *
-1.0	40977 *	58861 *	84003 *	114284 *	144578 *	172822 *	197743 *	218141 *	234037 *	246459 *
-3.0	40258 *	57415 *	81375 *	110738 *	140494 *	168945 *	193770 *	214340 *	230369 *	241261 *
-5.0	38933 *	55201 *	76926 *	104733 *	133148 *	160807 *	186085 *	206555 *	221678 *	234381 *
-7.0	36973 *	52230 *	72707 *	97661 *	122498 *	149061 *	173984 *	194177 *	211796 *	222087 *
-9.0	34520 *	48626 *	67258 *	88191 *	108591 *	133831 *	157251 *	178271 *	194293 *	206442 *
-11.0	31695 *	44188 *	60380 *	77310 *	95667 *	115901 *	137796 *	157019 *	173990 *	186039 *
-13.0	29340 *	39969 *	53933 *	68363 *	81537 *	98787 *	116153 *	133605 *	149044 *	160871 *
-15.0	26490 *	35342 *	47155 *	58423 *	69708 *	81665 *	96174 *	109203 *	123056 *	133390 *
-17.0	23669	30856 *	40597 *	50162 *	58203 *	68276 *	77690 *	88864 *	98598 *	105846 *
-19.5	20969	26033 *	32898 *	40403 *	46812 *	53563 *	60209 *	67624 *	73584 *	78028 *
-22.5	17951	21627	26050 *	30628 *	35032 *	39563 *	43721 *	48492 *	52473 *	55423 *
-25.5	15067	17971	21075	23661	26279 *	28959 *	31308 *	34300 *	36979 *	38975 *
-29.0	12017	14225	16479	18382	19781	21234	22565	23712	24915	26023 *
-33.0	8939	10489	12079	13409	14411	15315	16202	17012	17685	18191
-37.5	6358	7250	8217	8983	9545	10219	10805	11302	11717	12038
-42.5	4589	5005	5467	5798	6117	6429	6699	6930	7122	7269
-47.5	3541	3773	3986	4140	4265	4376	4473	4560	4627	4674
-55.0	2202	2317	2428	2535	2614	2687	2756	2815	2864	2902
-65.0	1106	1150	1198	1234	1260	1282	1299	1314	1325	1332
-75.0	531	548	560	568	573	578	583	587	589	594
-85.0	125	129	133	136	139	141	145	146	146	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	147	147	147	147	147	147	146	146	145	141
75.0	594	595	595	595	594	594	589	587	583	578
65.0	1341	1339	1338	1339	1341	1332	1325	1314	1299	1282

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**CANDELA TABULATION - (Cont.)**

55.0	2936	2939	2940	2939	2936	2902	2864	2815	2756	2687
47.5	4732	4742	4747	4742	4732	4674	4627	4560	4473	4376
42.5	7424	7411	7404	7411	7424	7269	7122	6930	6699	6429
37.5	12261	12297	12258	12297	12261	12038	11717	11302	10805	10219
33.0	18524	18599	18568	18599	18524	18191	17685	17012	16202	15315
29.0	26772 *	27199 *	27280 *	27199 *	26772 *	26023 *	24915	23712	22565	21234
25.5	40264 *	40977 *	41120 *	40977 *	40264 *	38975 *	36979 *	34300 *	31308 *	28959 *
22.5	57281 *	58421 *	58514 *	58421 *	57281 *	55423 *	52473 *	48492 *	43721 *	39563 *
19.5	81965 *	84301 *	84795 *	84301 *	81965 *	78028 *	73584 *	67624 *	60209 *	53563 *
17.0	111844 *	115662 *	116615 *	115662 *	111844 *	105846 *	98598 *	88864 *	77690 *	68276 *
15.0	140903 *	145911 *	146029 *	145911 *	140903 *	133390 *	123056 *	109203 *	96174 *	81665 *
13.0	169235 *	173986 *	174595 *	173986 *	169235 *	160871 *	149044 *	133605 *	116153 *	98787 *
11.0	194017 *	197961 *	198588 *	197961 *	194017 *	186039 *	173990 *	157019 *	137796 *	115901 *
9.0	214274 *	217845 *	218248 *	217845 *	214274 *	206442 *	194293 *	178271 *	157251 *	133831 *
7.0	229837 *	233802 *	233882 *	233802 *	229837 *	222087 *	211796 *	194177 *	173984 *	149061 *
5.0	241356 *	246133 *	245865 *	246133 *	241356 *	234381 *	221678 *	206555 *	186085 *	160807 *
3.0	248738 *	251555 *	251951 *	251555 *	248738 *	241261 *	230369 *	214340 *	193770 *	168945 *
1.0	251554 *	253464 *	253370 *	253464 *	251554 *	246459 *	234037 *	218141 *	197743 *	172822 *
0.0	252068 *	253370 *	253302 *	253370 *	252068 *	246450 *	233999 *	217897 *	197956 *	173822 *
-1.0	251554 *	253464 *	253370 *	253464 *	251554 *	246459 *	234037 *	218141 *	197743 *	172822 *
-3.0	248738 *	251555 *	251951 *	251555 *	248738 *	241261 *	230369 *	214340 *	193770 *	168945 *
-5.0	241356 *	246133 *	245865 *	246133 *	241356 *	234381 *	221678 *	206555 *	186085 *	160807 *
-7.0	229837 *	233802 *	233882 *	233802 *	229837 *	222087 *	211796 *	194177 *	173984 *	149061 *
-9.0	214274 *	217845 *	218248 *	217845 *	214274 *	206442 *	194293 *	178271 *	157251 *	133831 *
-11.0	194017 *	197961 *	198588 *	197961 *	194017 *	186039 *	173990 *	157019 *	137796 *	115901 *
-13.0	169235 *	173986 *	174595 *	173986 *	169235 *	160871 *	149044 *	133605 *	116153 *	98787 *
-15.0	140903 *	145911 *	146029 *	145911 *	140903 *	133390 *	123056 *	109203 *	96174 *	81665 *
-17.0	111844 *	115662 *	116615 *	115662 *	111844 *	105846 *	98598 *	88864 *	77690 *	68276 *
-19.5	81965 *	84301 *	84795 *	84301 *	81965 *	78028 *	73584 *	67624 *	60209 *	53563 *
-22.5	57281 *	58421 *	58514 *	58421 *	57281 *	55423 *	52473 *	48492 *	43721 *	39563 *
-25.5	40264 *	40977 *	41120 *	40977 *	40264 *	38975 *	36979 *	34300 *	31308 *	28959 *
-29.0	26772 *	27199 *	27280 *	27199 *	26772 *	26023 *	24915	23712	22565	21234
-33.0	18524	18599	18568	18599	18524	18191	17685	17012	16202	15315
-37.5	12261	12297	12258	12297	12261	12038	11717	11302	10805	10219
-42.5	7424	7411	7404	7411	7424	7269	7122	6930	6699	6429
-47.5	4732	4742	4747	4742	4732	4674	4627	4560	4473	4376
-55.0	2936	2939	2940	2939	2936	2902	2864	2815	2756	2687
-65.0	1341	1339	1338	1339	1341	1332	1325	1314	1299	1282
-75.0	594	595	595	595	594	594	589	587	583	578
-85.0	147	147	147	147	147	147	146	146	145	141
-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	139	136	133	129	125	121	116	109	99	89
75.0	573	568	560	548	531	501	465	430	391	350
65.0	1260	1234	1198	1150	1106	1037	954	859	759	669
55.0	2614	2535	2428	2317	2202	2042	1829	1596	1353	1134
47.5	4265	4140	3986	3773	3541	3193	2785	2440	1988	1594
42.5	6117	5798	5467	5005	4589	4134	3697	3089	2496	2000
37.5	9545	8983	8217	7250	6358	5433	4595	3885	3085	2403
33.0	14411	13409	12079	10489	8939	7282	5747	4608	3691	2776
29.0	19781	18382	16479	14225	12017	9629	7286	5431	4144	3179
25.5	26279 *	23661	21075	17971	15067	11942	8923	6347	4603	3508

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

22.5	35032 *	30628 *	26050 *	21627	17951	14205	10444	7258	5001	3731
19.5	46812 *	40403 *	32898 *	26033 *	20969	16451	11992	8244	5450	3923
17.0	58203 *	50162 *	40597 *	30856 *	23669	18341	13351	9023	5791	4079
15.0	69708 *	58423 *	47155 *	35342 *	26490 *	19816	14387	9586	6122	4220
13.0	81537 *	68363 *	53933 *	39969 *	29340 *	21392	15303	10251	6443	4345
11.0	95667 *	77310 *	60380 *	44188 *	31695 *	22729	16222	10835	6720	4453
9.0	108591 *	88191 *	67258 *	48626 *	34520 *	23821	17051	11317	6953	4544
7.0	122498 *	97661 *	72707 *	52230 *	36973 *	24983	17712	11699	7140	4617
5.0	133148 *	104733 *	76926 *	55201 *	38933 *	26089 *	18201	11980	7280	4673
3.0	140494 *	110738 *	81375 *	57415 *	40258 *	26831 *	18528	12184	7415	4736
1.0	144578 *	114284 *	84003 *	58861 *	40977 *	27260 *	18753	12334	7392	4737
0.0	144971 *	115003 *	84494 *	59030 *	41097 *	27335 *	18805	12353	7380	4738
-1.0	144578 *	114284 *	84003 *	58861 *	40977 *	27260 *	18753	12334	7392	4737
-3.0	140494 *	110738 *	81375 *	57415 *	40258 *	26831 *	18528	12184	7415	4736
-5.0	133148 *	104733 *	76926 *	55201 *	38933 *	26089 *	18201	11980	7280	4673
-7.0	122498 *	97661 *	72707 *	52230 *	36973 *	24983	17712	11699	7140	4617
-9.0	108591 *	88191 *	67258 *	48626 *	34520 *	23821	17051	11317	6953	4544
-11.0	95667 *	77310 *	60380 *	44188 *	31695 *	22729	16222	10835	6720	4453
-13.0	81537 *	68363 *	53933 *	39969 *	29340 *	21392	15303	10251	6443	4345
-15.0	69708 *	58423 *	47155 *	35342 *	26490 *	19816	14387	9586	6122	4220
-17.0	58203 *	50162 *	40597 *	30856 *	23669	18341	13351	9023	5791	4079
-19.5	46812 *	40403 *	32898 *	26033 *	20969	16451	11992	8244	5450	3923
-22.5	35032 *	30628 *	26050 *	21627	17951	14205	10444	7258	5001	3731
-25.5	26279 *	23661	21075	17971	15067	11942	8923	6347	4603	3508
-29.0	19781	18382	16479	14225	12017	9629	7286	5431	4144	3179
-33.0	14411	13409	12079	10489	8939	7282	5747	4608	3691	2776
-37.5	9545	8983	8217	7250	6358	5433	4595	3885	3085	2403
-42.5	6117	5798	5467	5005	4589	4134	3697	3089	2496	2000
-47.5	4265	4140	3986	3773	3541	3193	2785	2440	1988	1594
-55.0	2614	2535	2428	2317	2202	2042	1829	1596	1353	1134
-65.0	1260	1234	1198	1150	1106	1037	954	859	759	669
-75.0	573	568	560	548	531	501	465	430	391	350
-85.0	139	136	133	129	125	121	116	109	99	89
-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	74	54	35	12	0
75.0	280	191	109	35	0
65.0	547	365	194	57	0
55.0	842	561	286	80	0
47.5	1134	686	353	96	0
42.5	1353	772	397	106	0
37.5	1588	866	437	115	0
33.0	1826	958	469	122	0
29.0	2025	1037	499	127	0
25.5	2190	1106	522	132	0
22.5	2321	1152	539	135	0
19.5	2457	1200	555	138	0
17.0	2572	1235	567	140	0
15.0	2654	1259	575	141	0
13.0	2728	1281	582	142	0
11.0	2793	1299	589	146	0
9.0	2849	1314	594	146	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-MF-40.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	2895	1325	599	146	0
<b>5.0</b>	2930	1333	606	146	0
<b>3.0</b>	2966	1341	606	146	0
<b>1.0</b>	2971	1340	607	146	0
<b>0.0</b>	2974	1339	607	146	0
<b>-1.0</b>	2971	1340	607	146	0
<b>-3.0</b>	2966	1341	606	146	0
<b>-5.0</b>	2930	1333	606	146	0
<b>-7.0</b>	2895	1325	599	146	0
<b>-9.0</b>	2849	1314	594	146	0
<b>-11.0</b>	2793	1299	589	146	0
<b>-13.0</b>	2728	1281	582	142	0
<b>-15.0</b>	2654	1259	575	141	0
<b>-17.0</b>	2572	1235	567	140	0
<b>-19.5</b>	2457	1200	555	138	0
<b>-22.5</b>	2321	1152	539	135	0
<b>-25.5</b>	2190	1106	522	132	0
<b>-29.0</b>	2025	1037	499	127	0
<b>-33.0</b>	1826	958	469	122	0
<b>-37.5</b>	1588	866	437	115	0
<b>-42.5</b>	1353	772	397	106	0
<b>-47.5</b>	1134	686	353	96	0
<b>-55.0</b>	842	561	286	80	0
<b>-65.0</b>	547	365	194	57	0
<b>-75.0</b>	280	191	109	35	0
<b>-85.0</b>	74	54	35	12	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-MF-40.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 50819.2

Total Field Lumens (one side of beam only) = 40909.5

\* 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	0.11	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.20
75	1.13	2.26	2.25	2.24	2.21	2.19	2.16	2.11	2.07	2.53
65	2.94	5.89	5.87	5.82	5.75	5.67	5.57	5.46	5.32	6.44
55	6.52	13.02	12.93	12.76	12.55	12.27	11.95	11.59	11.19	13.37
47.5	8.78	17.52	17.37	17.12	16.82	16.43	15.97	15.45	14.88	17.75
42.5	9.25	18.50	18.31	17.94	17.52	17.00	16.37	15.65	14.87	17.53
37.5	14.99	29.98	29.62	28.89	27.96	26.80	25.44	23.87	22.28	25.73
33	21.15	42.25	41.71	40.64	39.17	37.34	35.22	32.91	30.53	34.73
29	27.92	55.46	54.40	52.60	50.27	47.69	44.88	41.82	38.64	43.64
25.5	36.40 *	72.03 *	70.21 *	67.27 *	63.29 *	58.73 *	54.26 *	49.78	45.14	50.37
22.5	45.47 *	89.93 *	87.49 *	83.54 *	77.93 *	71.01 *	64.16 *	57.56 *	50.77 *	55.01 *
19.5	65.34 *	128.75 *	124.29 *	117.92 *	109.57 *	99.01 *	88.07 *	77.57 *	67.14 *	70.50 *
17	76.41 *	149.84 *	143.45 *	134.83 *	123.92 *	110.39 *	96.73 *	83.81 *	71.58 *	74.15 *
15	79.84 *	156.57 *	149.49 *	139.62 *	126.60 *	111.57 *	96.48 *	82.12 *	69.25 *	70.99 *
13	97.55 *	191.79 *	183.65 *	171.57 *	155.32 *	136.53 *	117.03 *	98.03 *	81.41 *	82.40 *
11	113.48 *	223.81 *	215.79 *	202.95 *	185.10 *	163.36 *	139.63 *	115.83 *	94.54 *	94.01 *
9	126.81 *	250.87 *	243.32 *	230.46 *	212.22 *	189.08 *	162.31 *	134.18 *	108.27 *	106.00 *
7	137.65 *	272.68 *	265.16 *	252.83 *	234.84 *	211.09 *	182.98 *	151.91 *	122.08 *	117.81 *
5	146.16 *	289.54 *	281.88 *	269.59 *	251.63 *	228.22 *	199.60 *	167.14 *	134.12 *	127.29 *
3	151.62 *	300.70 *	293.45 *	281.03 *	263.31 *	240.20 *	211.42 *	178.34 *	143.21 *	135.15 *
1	153.88 *	306.03 *	300.22 *	288.43 *	270.53 *	247.18 *	218.48 *	185.26 *	149.36 *	141.16 *
0	77.18 *	153.80 *	151.40 *	145.55 *	136.35 *	124.75 *	110.59 *	94.01 *	75.96 *	71.92 *
-1	77.18 *	153.80 *	151.40 *	145.55 *	136.35 *	124.75 *	110.59 *	94.01 *	75.96 *	71.92 *
	153.88 *	306.03 *	300.22 *	288.43 *	270.53 *	247.18 *	218.48 *	185.26 *	149.36 *	141.16 *

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

<b>-3</b>	151.62 *	300.70 *	293.45 *	281.03 *	263.31 *	240.20 *	211.42 *	178.34 *	143.21 *	135.15 *
<b>-5</b>	146.16 *	289.54 *	281.88 *	269.59 *	251.63 *	228.22 *	199.60 *	167.14 *	134.12 *	127.29 *
<b>-7</b>	137.65 *	272.68 *	265.16 *	252.83 *	234.84 *	211.09 *	182.98 *	151.91 *	122.08 *	117.81 *
<b>-9</b>	126.81 *	250.87 *	243.32 *	230.46 *	212.22 *	189.08 *	162.31 *	134.18 *	108.27 *	106.00 *
<b>-11</b>	113.48 *	223.81 *	215.79 *	202.95 *	185.10 *	163.36 *	139.63 *	115.83 *	94.54 *	94.01 *
<b>-13</b>	97.55 *	191.79 *	183.65 *	171.57 *	155.32 *	136.53 *	117.03 *	98.03 *	81.41 *	82.40 *
<b>-15</b>	79.84 *	156.57 *	149.49 *	139.62 *	126.60 *	111.57 *	96.48 *	82.12 *	69.25 *	70.99 *
<b>-17</b>	76.41 *	149.84 *	143.45 *	134.83 *	123.92 *	110.39 *	96.73 *	83.81 *	71.58 *	74.15 *
<b>-19.5</b>	65.34 *	128.75 *	124.29 *	117.92 *	109.57 *	99.01 *	88.07 *	77.57 *	67.14 *	70.50 *
<b>-22.5</b>	45.47 *	89.93 *	87.49 *	83.54 *	77.93 *	71.01 *	64.16 *	57.56 *	50.77 *	55.01 *
<b>-25.5</b>	36.40 *	72.03 *	70.21 *	67.27 *	63.29 *	58.73 *	54.26 *	49.78	45.14	50.37
<b>-29</b>	27.92	55.46	54.40	52.60	50.27	47.69	44.88	41.82	38.64	43.64
<b>-33</b>	21.15	42.25	41.71	40.64	39.17	37.34	35.22	32.91	30.53	34.73
<b>-37.5</b>	14.99	29.98	29.62	28.89	27.96	26.80	25.44	23.87	22.28	25.73
<b>-42.5</b>	9.25	18.50	18.31	17.94	17.52	17.00	16.37	15.65	14.87	17.53
<b>-47.5</b>	8.78	17.52	17.37	17.12	16.82	16.43	15.97	15.45	14.88	17.75
<b>-55</b>	6.52	13.02	12.93	12.76	12.55	12.27	11.95	11.59	11.19	13.37
<b>-65</b>	2.94	5.89	5.87	5.82	5.75	5.67	5.57	5.46	5.32	6.44
<b>-75</b>	1.13	2.26	2.25	2.24	2.21	2.19	2.16	2.11	2.07	2.53
<b>-85</b>	0.11	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.20	0.24
<b>-90</b>										
<b>Total</b>	2801.16	5542.88	5384.98	5127.63	4766.2	4313.47	3799.03	3249.24	2705.66	2717.42

**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>	0.28	0.27	0.29	0.31	0.31	0.30	0.25	0.29	0.24	0.12
<b>85</b>	2.92	2.78	3.03	3.14	3.13	3.00	2.50	2.83	2.28	1.01
<b>75</b>	7.37	6.96	7.52	7.72	7.58	7.11	5.84	6.59	5.26	2.23
<b>65</b>	15.13	14.14	15.13	15.30	14.66	13.32	10.54	11.40	8.80	3.66
<b>55</b>	20.00	18.52	19.51	19.28	18.15	16.13	12.25	12.60	9.19	3.68

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

<b>47.5</b>										
	19.44	17.64	18.31	18.02	16.80	14.60	10.87	10.86	7.50	2.87
<b>42.5</b>	27.66	24.21	24.30	23.31	21.36	18.30	13.44	13.12	8.71	3.22
<b>37.5</b>	36.50	31.02	29.86	27.09	23.71	20.04	14.48	13.81	8.96	3.20
<b>33</b>	45.44	38.12	35.89	31.27	25.82	20.85	14.85	14.01	8.89	3.08
<b>29</b>	52.06	43.30	40.35	34.52	27.41	20.95	14.54	13.63	8.46	2.88
<b>25.5</b>	55.48	45.46	42.05	35.64	27.68	20.30	13.60	12.59	7.72	2.59
<b>22.5</b>	68.21 *	54.20	49.45	41.58	31.84	22.70	14.62	13.32	8.13	2.69
<b>19.5</b>	69.52 *	52.97 *	47.05	39.25	29.80	20.78	12.95	11.64	7.10	2.31
<b>17</b>	65.66 *	48.56 *	41.85	34.40	25.93	17.80	10.88	9.66	5.87	1.89
<b>15</b>	75.24 *	54.73 *	45.98	37.02	27.71	18.90	11.37	9.97	6.03	1.92
<b>13</b>	84.65 *	60.60 *	49.83 *	39.50	29.44	19.97	11.82	10.23	6.16	1.95
<b>11</b>	94.03 *	66.37 *	53.43 *	41.68	31.01	20.89	12.20	10.46	6.28	1.97
<b>9</b>	102.72 *	71.93 *	57.00 *	43.63	32.33	21.64	12.52	10.65	6.38	1.99
<b>7</b>	109.65 *	76.52 *	60.17 *	45.42	33.35	22.22	12.76	10.80	6.45	2.01
<b>5</b>	115.55 *	80.06 *	62.60 *	46.81	34.07	22.66	12.98	10.94	6.52	2.02
<b>3</b>	120.13 *	82.44 *	64.12 *	47.71	34.58	22.93	13.07	11.01	6.55	2.03
<b>1</b>	61.08 *	41.73 *	32.38 *	24.06	17.42	11.51	6.53	5.51	3.28	1.01
<b>0</b>	61.08 *	41.73 *	32.38 *	24.06	17.42	11.51	6.53	5.51	3.28	1.01
<b>-1</b>	120.13 *	82.44 *	64.12 *	47.71	34.58	22.93	13.07	11.01	6.55	2.03
<b>-3</b>	115.55 *	80.06 *	62.60 *	46.81	34.07	22.66	12.98	10.94	6.52	2.02
<b>-5</b>	109.65 *	76.52 *	60.17 *	45.42	33.35	22.22	12.76	10.80	6.45	2.01
<b>-7</b>	102.72 *	71.93 *	57.00 *	43.63	32.33	21.64	12.52	10.65	6.38	1.99
<b>-9</b>	94.03 *	66.37 *	53.43 *	41.68	31.01	20.89	12.20	10.46	6.28	1.97
<b>-11</b>	84.65 *	60.60 *	49.83 *	39.50	29.44	19.97	11.82	10.23	6.16	1.95
<b>-13</b>	75.24 *	54.73 *	45.98	37.02	27.71	18.90	11.37	9.97	6.03	1.92
<b>-15</b>	65.66 *	48.56 *	41.85	34.40	25.93	17.80	10.88	9.66	5.87	1.89
<b>-17</b>	69.52 *	52.97 *	47.05	39.25	29.80	20.78	12.95	11.64	7.10	2.31
<b>-19.5</b>	68.21 *	54.20	49.45	41.58	31.84	22.70	14.62	13.32	8.13	2.69

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

<b>-22.5</b>	55.48	45.46	42.05	35.64	27.68	20.30	13.60	12.59	7.72	2.59
<b>-25.5</b>	52.06	43.30	40.35	34.52	27.41	20.95	14.54	13.63	8.46	2.88
<b>-29</b>	45.44	38.12	35.89	31.27	25.82	20.85	14.85	14.01	8.89	3.08
<b>-33</b>	36.50	31.02	29.86	27.09	23.71	20.04	14.48	13.81	8.96	3.20
<b>-37.5</b>	27.66	24.21	24.30	23.31	21.36	18.30	13.44	13.12	8.71	3.22
<b>-42.5</b>	19.44	17.64	18.31	18.02	16.80	14.60	10.87	10.86	7.50	2.87
<b>-47.5</b>	20.00	18.52	19.51	19.28	18.15	16.13	12.25	12.60	9.19	3.68
<b>-55</b>	15.13	14.14	15.13	15.30	14.66	13.32	10.54	11.40	8.80	3.66
<b>-65</b>	7.37	6.96	7.52	7.72	7.58	7.11	5.84	6.59	5.26	2.23
<b>-75</b>	2.92	2.78	3.03	3.14	3.13	3.00	2.50	2.83	2.28	1.01
<b>-85</b>	0.28	0.27	0.29	0.31	0.31	0.30	0.25	0.29	0.24	0.12
<b>-90</b>										
<b>Total</b>	2497.45	1865.1	1600.21	1313.29	1028.21	753.83	489.72	451.88	289.55	100.69

<b>Vert. Angles</b>	<b>Horizontal Angles</b>		
	<b><u>75</u></b>	<b><u>85</u></b>	<b><u>90</u></b>
<b>90</b>			
	0.03	0.00	4.78
<b>85</b>			
	0.25	0.01	48.04
<b>75</b>			
	0.52	0.02	119.46
<b>65</b>			
	0.81	0.02	241.06
<b>55</b>			
	0.81	0.02	308.23
<b>47.5</b>			
	0.63	0.02	300.52
<b>42.5</b>			
	0.70	0.02	433.90
<b>37.5</b>			
	0.68	0.02	565.04
<b>33</b>			
	0.64	0.02	696.19
<b>29</b>			
	0.59	0.02	826.20
<b>25.5</b>			
	0.53	0.01	946.53
<b>22.5</b>			
	0.54	0.01	1255.49
<b>19.5</b>			
	0.46	0.01	1358.95
<b>17</b>			
	0.38	0.01	1345.44

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

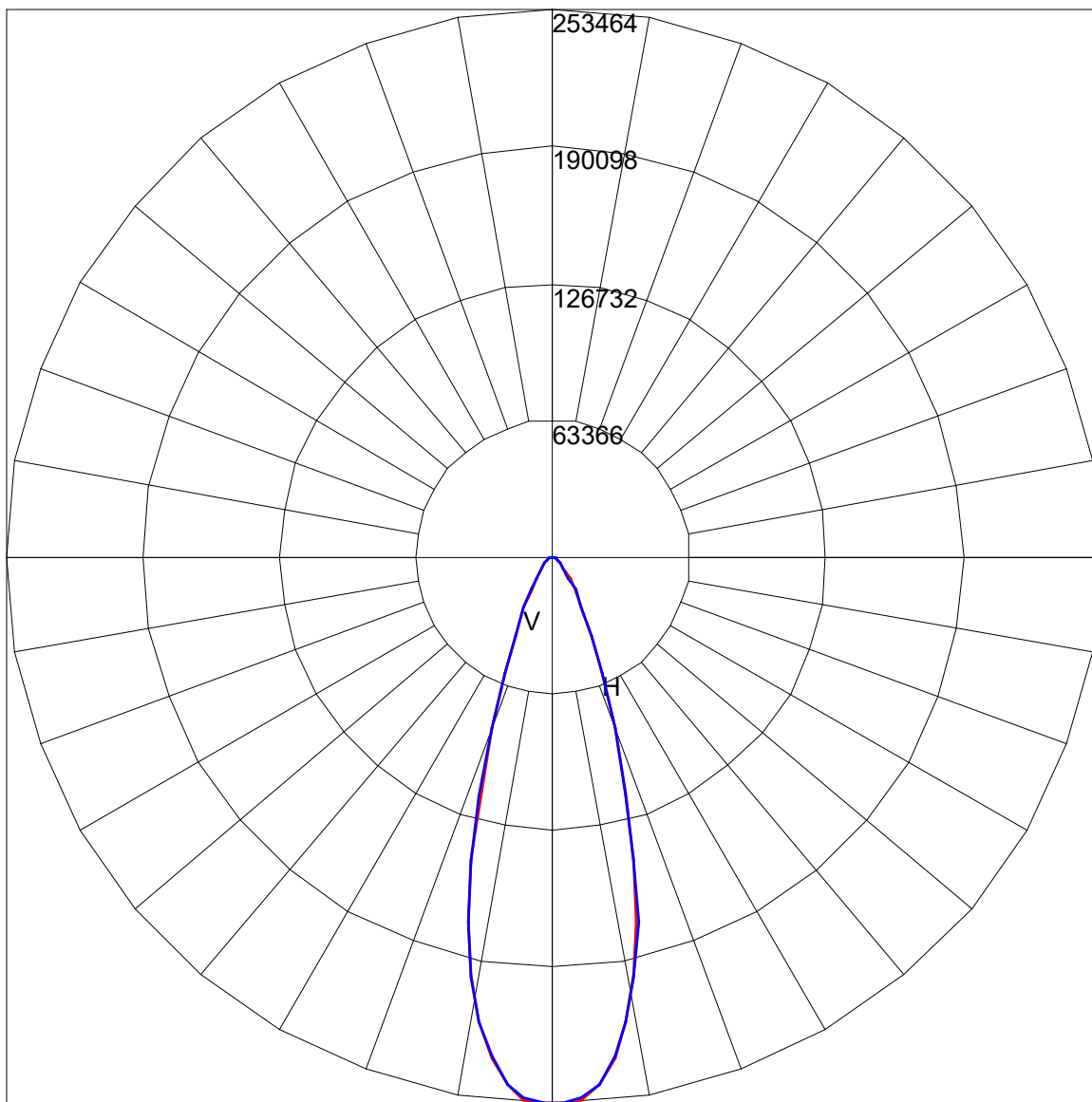
<b>15</b>			
	0.38	0.01	1604.54
<b>13</b>			
	0.39	0.01	1863.04
<b>11</b>			
	0.39	0.01	2102.26
<b>9</b>			
	0.39	0.01	2310.22
<b>7</b>			
	0.40	0.01	2474.91
<b>5</b>			
	0.40	0.01	2593.04
<b>3</b>			
	0.40	0.01	2665.52
<b>1</b>			
	0.20	0.00	1346.21
<b>0</b>			
	0.20	0.00	1346.21
<b>-1</b>			
	0.40	0.01	2665.52
<b>-3</b>			
	0.40	0.01	2593.04
<b>-5</b>			
	0.40	0.01	2474.91
<b>-7</b>			
	0.39	0.01	2310.22
<b>-9</b>			
	0.39	0.01	2102.26
<b>-11</b>			
	0.39	0.01	1863.04
<b>-13</b>			
	0.38	0.01	1604.54
<b>-15</b>			
	0.38	0.01	1345.44
<b>-17</b>			
	0.46	0.01	1358.95
<b>-19.5</b>			
	0.54	0.01	1255.49
<b>-22.5</b>			
	0.53	0.01	946.53
<b>-25.5</b>			
	0.59	0.02	826.20
<b>-29</b>			
	0.64	0.02	696.19
<b>-33</b>			
	0.68	0.02	565.04
<b>-37.5</b>			
	0.70	0.02	433.90
<b>-42.5</b>			
	0.63	0.02	300.52
<b>-47.5</b>			
	0.81	0.02	308.23
<b>-55</b>			
	0.81	0.02	241.06
<b>-65</b>			
	0.52	0.02	119.46

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-MF-40.IES**

**LUMENS TABULATION - (Cont.)**

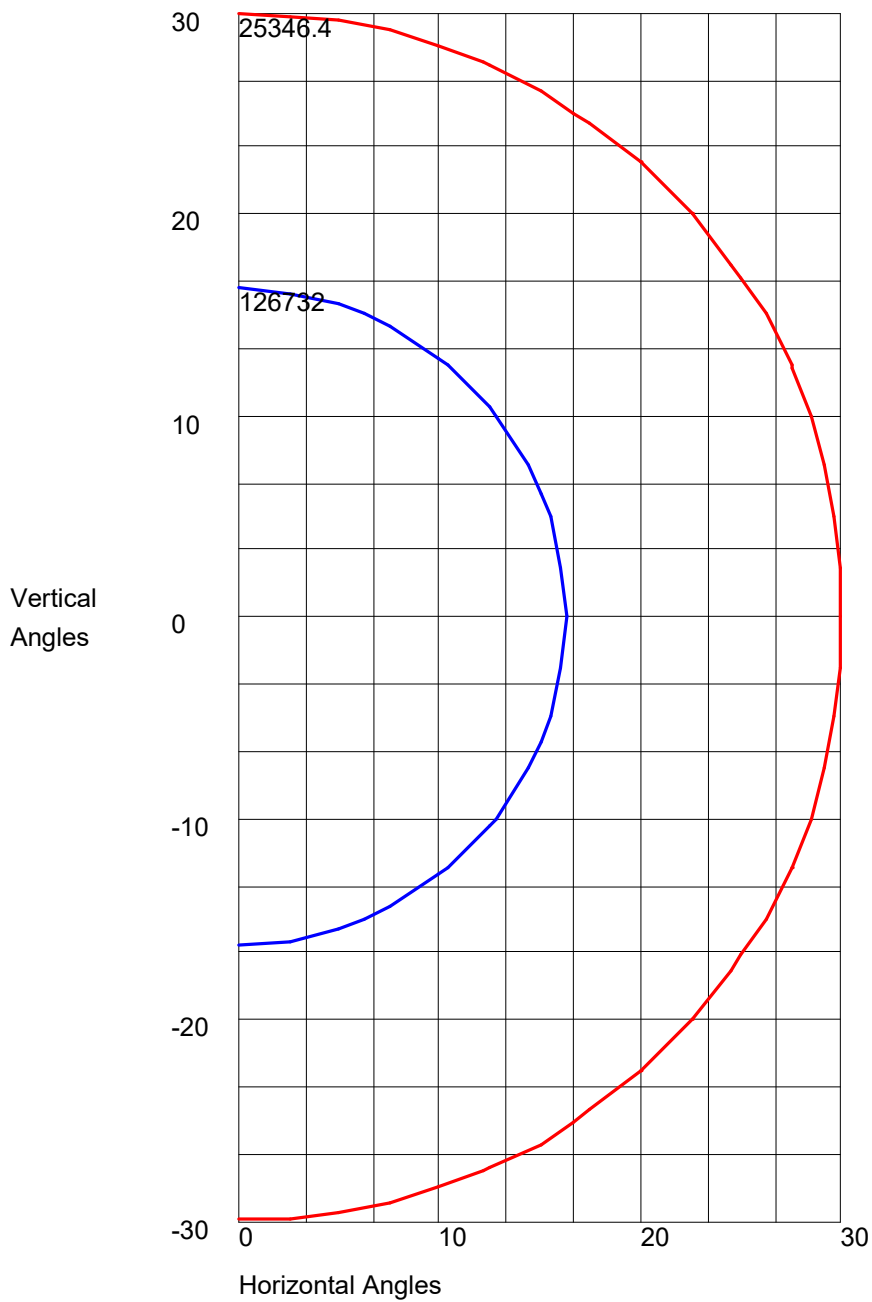
<b>-75</b>	0.25	0.01	48.04
<b>-85</b>	0.03	0.00	4.78
<b>-90</b>			
<b>Total</b>	21.02	0.55	50819.16

AXIAL CANDELA DISPLAY



Maximum Candela = 253464 Located At Horizontal Angle =-1, Vertical Angle =-1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 25346.4 Located At Horizontal Angle = -1, Vertical Angle = -1  
50% Maximum Candela = 12673.2  
10% Maximum Candela = 25346.4