



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-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
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMEN CATEGORY] ZNF-100L-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_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLOR TEMP] 4000

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

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	173078
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	51326
Beam Efficiency	N.A.
Field Lumens	92214
Field Efficiency	N.A.
Spill Lumens	12787
Luminaire Lumens	105002
Total Efficiency	N.A.
Total Luminaire Watts	767
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	91	85	92
75	505	75	501
65	1291	65	1292
55	2914	55	2903
47.5	5207	47.5	5356
42.5	11609	42.5	11763
37.5	20372	37.5	20295
33	30465	33	30348
29	41650	29	41614
25.5	53848	25.5	54309
22.5	69037	22.5	69226
19.5	92241	19.5	92311
17	114118	17	114579
15	129987	15	130370
13	142653	13	142887
11	152639	11	152951
9	160680	9	161061
7	167048	7	167359
5	171556	5	171634
3	172814	3	172929
1	172952	1	173002
0	172834	0	172834
-1	172952	-1	173002
-3	172814	-3	172929
-5	171556	-5	171634
-7	167048	-7	167359
-9	160680	-9	161061
-11	152639	-11	152951
-13	142653	-13	142887
-15	129987	-15	130370
-17	114118	-17	114579
-19.5	92241	-19.5	92311
-22.5	69037	-22.5	69226
-25.5	53848	-25.5	54309
-29	41650	-29	41614
-33	30465	-33	30348
-37.5	20372	-37.5	20295
-42.5	11609	-42.5	11763
-47.5	5207	-47.5	5356
-55	2914	-55	2903
-65	1291	-65	1292
-75	505	-75	501
-85	91	-85	92
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 173078

Beam Edge = 86539 Cd (50% of Max.)

Field Edge = 17307.8 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	-85.0	-75.0	-65.0	-55.0	-47.5	-42.5	-37.5	-33.0	-29.0
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	6	17	27	41	52	60	67	73	77
75.0	0	17	66	134	212	270	310	347	378	404
65.0	0	27	136	282	452	589	692	805	908	988
55.0	0	41	215	451	774	1093	1325	1578	1835	2062
47.5	0	53	273	590	1083	1583	2008	2299	2776	3210
42.5	0	60	313	693	1301	2008	2394	3108	3694	4117
37.5	0	67	351	803	1564	2278	3093	3840	5013	7100
33.0	0	72	381	901	1810	2740	3675	4997	7939	11355
29.0	0	77	407	982	2006	3181	4075	7028	11287	15848
25.5	0	80	426	1053	2127	3525	4927	9213	14511	19620 *
22.5	0	82	441	1102	2226	3691	5829	11164	17257	23161 *
19.5	0	85	455	1151	2349	3834	7042	13199	19878 *	26741 *
17.0	0	86	465	1186	2477	4030	7943	14807	22097 *	29701 *
15.0	0	87	473	1211	2567	4293	8716	15964	23759 *	31912 *
13.0	0	88	480	1233	2646	4522	9455	17081	25250 *	34178 *
11.0	0	91	486	1252	2714	4717	10098	18035 *	26665 *	36132 *
9.0	0	91	491	1266	2771	4876	10640	18801 *	27881 *	37760 *
7.0	0	91	496	1277	2817	5000	11078	19407 *	28856 *	39193 *
5.0	0	91	502	1285	2858	5093	11409	19850 *	29612 *	40362 *
3.0	0	91	503	1294	2900	5204	11704	20156 *	30135 *	41152 *
1.0	0	91	504	1292	2909	5206	11641	20362 *	30419 *	41580 *
0.0	0	91	505	1291	2914	5207	11609	20372 *	30465 *	41650 *
-1.0	0	91	504	1292	2909	5206	11641	20362 *	30419 *	41580 *
-3.0	0	91	503	1294	2900	5204	11704	20156 *	30135 *	41152 *
-5.0	0	91	502	1285	2858	5093	11409	19850 *	29612 *	40362 *
-7.0	0	91	496	1277	2817	5000	11078	19407 *	28856 *	39193 *
-9.0	0	91	491	1266	2771	4876	10640	18801 *	27881 *	37760 *
-11.0	0	91	486	1252	2714	4717	10098	18035 *	26665 *	36132 *
-13.0	0	88	480	1233	2646	4522	9455	17081	25250 *	34178 *
-15.0	0	87	473	1211	2567	4293	8716	15964	23759 *	31912 *
-17.0	0	86	465	1186	2477	4030	7943	14807	22097 *	29701 *
-19.5	0	85	455	1151	2349	3834	7042	13199	19878 *	26741 *
-22.5	0	82	441	1102	2226	3691	5829	11164	17257	23161 *
-25.5	0	80	426	1053	2127	3525	4927	9213	14511	19620 *
-29.0	0	77	407	982	2006	3181	4075	7028	11287	15848
-33.0	0	72	381	901	1810	2740	3675	4997	7939	11355
-37.5	0	67	351	803	1564	2278	3093	3840	5013	7100
-42.5	0	60	313	693	1301	2008	2394	3108	3694	4117
-47.5	0	53	273	590	1083	1583	2008	2299	2776	3210
-55.0	0	41	215	451	774	1093	1325	1578	1835	2062
-65.0	0	27	136	282	452	589	692	805	908	988
-75.0	0	17	66	134	212	270	310	347	378	404
-85.0	0	6	17	27	41	52	60	67	73	77
-90.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>-25.5</u>	<u>-22.5</u>	<u>-19.5</u>	<u>-17.0</u>	<u>-15.0</u>	<u>-13.0</u>	<u>-11.0</u>	<u>-9.0</u>	<u>-7.0</u>	<u>-5.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	80	83	87	89	91	91	94	94	93	93
75.0	426	442	457	467	474	480	484	488	491	495
65.0	1054	1098	1149	1186	1212	1235	1252	1265	1275	1282
55.0	2160	2234	2334	2461	2554	2638	2712	2772	2820	2856
47.5	3569	3758	3925	4124	4383	4613	4811	4979	5109	5201
42.5	4999	5925	7134	8021	8800	9540	10189	10712	11113	11410
37.5	9299	11229	13204	14736	15854	16986	17963 *	18783 *	19443 *	19944 *
33.0	14542	17240	19824 *	22015 *	23575 *	25025 *	26540 *	27880 *	28888 *	29617 *
29.0	19654 *	23284 *	26851 *	29717 *	31852 *	34013 *	35999 *	37700 *	39174 *	40334 *
25.5	24636 *	29246 *	33815 *	37564 *	40528 *	43308 *	45777 *	48399 *	50631 *	52275 *
22.5	29086 *	34681 *	40363 *	45025 *	48932 *	52774 *	56334 *	60432 *	63754 *	66228 *
19.5	33634 *	40315 *	47215 *	53525 *	59003 *	64983 *	70802 *	77338 *	82781 *	87051 *
17.0	37562 *	45112 *	53587 *	61863 *	68908 *	78080 *	86558 *	95116 *	102544 *	108118 *
15.0	40651 *	49091 *	59060 *	68850 *	79270 *	89674 *	100694 *	110354 *	117931 *	123460 *
13.0	43505 *	53020 *	64875 *	78141 *	89884 *	102753 *	114232 *	123948 *	131745 *	136738 *
11.0	45957 *	56661 *	70651 *	86702 *	101070 *	114403 *	126075 *	135465 *	142724 *	147679 *
9.0	48443 *	60407 *	77166 *	95235 *	110777 *	124093 *	135467 *	145029 *	151284 *	156057 *
7.0	50504 *	63408 *	82238 *	102382 *	118189 *	132005 *	142875 *	151268 *	158034 *	162497 *
5.0	52128 *	65868 *	86157 *	107546 *	123418 *	137009 *	148101 *	156198 *	162392 *	167336 *
3.0	53221 *	67675 *	89632 *	111392 *	127222 *	140424 *	150874 *	159112 *	165728 *	169781 *
1.0	53776 *	68878 *	91729 *	113537 *	129613 *	142339 *	152578 *	160688 *	167069 *	171679 *
0.0	53848 *	69037 *	92241 *	114118 *	129987 *	142653 *	152639 *	160680 *	167048 *	171556 *
-1.0	53776 *	68878 *	91729 *	113537 *	129613 *	142339 *	152578 *	160688 *	167069 *	171679 *
-3.0	53221 *	67675 *	89632 *	111392 *	127222 *	140424 *	150874 *	159112 *	165728 *	169781 *
-5.0	52128 *	65868 *	86157 *	107546 *	123418 *	137009 *	148101 *	156198 *	162392 *	167336 *
-7.0	50504 *	63408 *	82238 *	102382 *	118189 *	132005 *	142875 *	151268 *	158034 *	162497 *
-9.0	48443 *	60407 *	77166 *	95235 *	110777 *	124093 *	135467 *	145029 *	151284 *	156057 *
-11.0	45957 *	56661 *	70651 *	86702 *	101070 *	114403 *	126075 *	135465 *	142724 *	147679 *
-13.0	43505 *	53020 *	64875 *	78141 *	89884 *	102753 *	114232 *	123948 *	131745 *	136738 *
-15.0	40651 *	49091 *	59060 *	68850 *	79270 *	89674 *	100694 *	110354 *	117931 *	123460 *
-17.0	37562 *	45112 *	53587 *	61863 *	68908 *	78080 *	86558 *	95116 *	102544 *	108118 *
-19.5	33634 *	40315 *	47215 *	53525 *	59003 *	64983 *	70802 *	77338 *	82781 *	87051 *
-22.5	29086 *	34681 *	40363 *	45025 *	48932 *	52774 *	56334 *	60432 *	63754 *	66228 *
-25.5	24636 *	29246 *	33815 *	37564 *	40528 *	43308 *	45777 *	48399 *	50631 *	52275 *
-29.0	19654 *	23284 *	26851 *	29717 *	31852 *	34013 *	35999 *	37700 *	39174 *	40334 *
-33.0	14542	17240	19824 *	22015 *	23575 *	25025 *	26540 *	27880 *	28888 *	29617 *
-37.5	9299	11229	13204	14736	15854	16986	17963 *	18783 *	19443 *	19944 *
-42.5	4999	5925	7134	8021	8800	9540	10189	10712	11113	11410
-47.5	3569	3758	3925	4124	4383	4613	4811	4979	5109	5201
-55.0	2160	2234	2334	2461	2554	2638	2712	2772	2820	2856
-65.0	1054	1098	1149	1186	1212	1235	1252	1265	1275	1282
-75.0	426	442	457	467	474	480	484	488	491	495
-85.0	80	83	87	89	91	91	94	94	93	93
-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	93	92	92	92	93	93	93	94	94	91
75.0	497	500	501	500	497	495	491	488	484	480
65.0	1291	1292	1292	1292	1291	1282	1275	1265	1252	1235

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

55.0	2893	2900	2903	2900	2893	2856	2820	2772	2712	2638
47.5	5314	5342	5356	5342	5314	5201	5109	4979	4811	4613
42.5	11729	11752	11763	11752	11729	11410	11113	10712	10189	9540
37.5	20282 *	20351 *	20295 *	20351 *	20282 *	19944 *	19443 *	18783 *	17963 *	16986
33.0	30108 *	30332 *	30348 *	30332 *	30108 *	29617 *	28888 *	27880 *	26540 *	25025 *
29.0	41108 *	41536 *	41614 *	41536 *	41108 *	40334 *	39174 *	37700 *	35999 *	34013 *
25.5	53358 *	54084 *	54309 *	54084 *	53358 *	52275 *	50631 *	48399 *	45777 *	43308 *
22.5	67853 *	68990 *	69226 *	68990 *	67853 *	66228 *	63754 *	60432 *	56334 *	52774 *
19.5	89944 *	91701 *	92311 *	91701 *	89944 *	87051 *	82781 *	77338 *	70802 *	64983 *
17.0	111639 *	113670 *	114579 *	113670 *	111639 *	108118 *	102544 *	95116 *	86558 *	78080 *
15.0	127358 *	129937 *	130370 *	129937 *	127358 *	123460 *	117931 *	110354 *	100694 *	89674 *
13.0	140301 *	142190 *	142887 *	142190 *	140301 *	136738 *	131745 *	123948 *	114232 *	102753 *
11.0	150884 *	152408 *	152951 *	152408 *	150884 *	147679 *	142724 *	135465 *	126075 *	114403 *
9.0	159155 *	160726 *	161061 *	160726 *	159155 *	156057 *	151284 *	145029 *	135467 *	124093 *
7.0	165509 *	167120 *	167359 *	167120 *	165509 *	162497 *	158034 *	151268 *	142875 *	132005 *
5.0	169692 *	171425 *	171634 *	171425 *	169692 *	167336 *	162392 *	156198 *	148101 *	137009 *
3.0	172220 *	172612 *	172929 *	172612 *	172220 *	169781 *	165728 *	159112 *	150874 *	140424 *
1.0	172780 *	173078 *	173002 *	173078 *	172780 *	171679 *	167069 *	160688 *	152578 *	142339 *
0.0	172814 *	172952 *	172834 *	172952 *	172814 *	171556 *	167048 *	160680 *	152639 *	142653 *
-1.0	172780 *	173078 *	173002 *	173078 *	172780 *	171679 *	167069 *	160688 *	152578 *	142339 *
-3.0	172220 *	172612 *	172929 *	172612 *	172220 *	169781 *	165728 *	159112 *	150874 *	140424 *
-5.0	169692 *	171425 *	171634 *	171425 *	169692 *	167336 *	162392 *	156198 *	148101 *	137009 *
-7.0	165509 *	167120 *	167359 *	167120 *	165509 *	162497 *	158034 *	151268 *	142875 *	132005 *
-9.0	159155 *	160726 *	161061 *	160726 *	159155 *	156057 *	151284 *	145029 *	135467 *	124093 *
-11.0	150884 *	152408 *	152951 *	152408 *	150884 *	147679 *	142724 *	135465 *	126075 *	114403 *
-13.0	140301 *	142190 *	142887 *	142190 *	140301 *	136738 *	131745 *	123948 *	114232 *	102753 *
-15.0	127358 *	129937 *	130370 *	129937 *	127358 *	123460 *	117931 *	110354 *	100694 *	89674 *
-17.0	111639 *	113670 *	114579 *	113670 *	111639 *	108118 *	102544 *	95116 *	86558 *	78080 *
-19.5	89944 *	91701 *	92311 *	91701 *	89944 *	87051 *	82781 *	77338 *	70802 *	64983 *
-22.5	67853 *	68990 *	69226 *	68990 *	67853 *	66228 *	63754 *	60432 *	56334 *	52774 *
-25.5	53358 *	54084 *	54309 *	54084 *	53358 *	52275 *	50631 *	48399 *	45777 *	43308 *
-29.0	41108 *	41536 *	41614 *	41536 *	41108 *	40334 *	39174 *	37700 *	35999 *	34013 *
-33.0	30108 *	30332 *	30348 *	30332 *	30108 *	29617 *	28888 *	27880 *	26540 *	25025 *
-37.5	20282 *	20351 *	20295 *	20351 *	20282 *	19944 *	19443 *	18783 *	17963 *	16986
-42.5	11729	11752	11763	11752	11729	11410	11113	10712	10189	9540
-47.5	5314	5342	5356	5342	5314	5201	5109	4979	4811	4613
-55.0	2893	2900	2903	2900	2893	2856	2820	2772	2712	2638
-65.0	1291	1292	1292	1292	1291	1282	1275	1265	1252	1235
-75.0	497	500	501	500	497	495	491	488	484	480
-85.0	93	92	92	92	93	93	93	94	94	91
-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	91	89	87	83	80	77	73	67	60	52
75.0	474	467	457	442	426	404	378	347	310	270
65.0	1212	1186	1149	1098	1054	988	908	805	692	589
55.0	2554	2461	2334	2234	2160	2062	1835	1578	1325	1093
47.5	4383	4124	3925	3758	3569	3210	2776	2299	2008	1583
42.5	8800	8021	7134	5925	4999	4117	3694	3108	2394	2008
37.5	15854	14736	13204	11229	9299	7100	5013	3840	3093	2278
33.0	23575 *	22015 *	19824 *	17240	14542	11355	7939	4997	3675	2740
29.0	31852 *	29717 *	26851 *	23284 *	19654 *	15848	11287	7028	4075	3181
25.5	40528 *	37564 *	33815 *	29246 *	24636 *	19620 *	14511	9213	4927	3525

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	48932 *	45025 *	40363 *	34681 *	29086 *	23161 *	17257	11164	5829	3691
19.5	59003 *	53525 *	47215 *	40315 *	33634 *	26741 *	19878 *	13199	7042	3834
17.0	68908 *	61863 *	53587 *	45112 *	37562 *	29701 *	22097 *	14807	7943	4030
15.0	79270 *	68850 *	59060 *	49091 *	40651 *	31912 *	23759 *	15964	8716	4293
13.0	89884 *	78141 *	64875 *	53020 *	43505 *	34178 *	25250 *	17081	9455	4522
11.0	101070 *	86702 *	70651 *	56661 *	45957 *	36132 *	26665 *	18035 *	10098	4717
9.0	110777 *	95235 *	77166 *	60407 *	48443 *	37760 *	27881 *	18801 *	10640	4876
7.0	118189 *	102382 *	82238 *	63408 *	50504 *	39193 *	28856 *	19407 *	11078	5000
5.0	123418 *	107546 *	86157 *	65868 *	52128 *	40362 *	29612 *	19850 *	11409	5093
3.0	127222 *	111392 *	89632 *	67675 *	53221 *	41152 *	30135 *	20156 *	11704	5204
1.0	129613 *	113537 *	91729 *	68878 *	53776 *	41580 *	30419 *	20362 *	11641	5206
0.0	129987 *	114118 *	92241 *	69037 *	53848 *	41650 *	30465 *	20372 *	11609	5207
-1.0	129613 *	113537 *	91729 *	68878 *	53776 *	41580 *	30419 *	20362 *	11641	5206
-3.0	127222 *	111392 *	89632 *	67675 *	53221 *	41152 *	30135 *	20156 *	11704	5204
-5.0	123418 *	107546 *	86157 *	65868 *	52128 *	40362 *	29612 *	19850 *	11409	5093
-7.0	118189 *	102382 *	82238 *	63408 *	50504 *	39193 *	28856 *	19407 *	11078	5000
-9.0	110777 *	95235 *	77166 *	60407 *	48443 *	37760 *	27881 *	18801 *	10640	4876
-11.0	101070 *	86702 *	70651 *	56661 *	45957 *	36132 *	26665 *	18035 *	10098	4717
-13.0	89884 *	78141 *	64875 *	53020 *	43505 *	34178 *	25250 *	17081	9455	4522
-15.0	79270 *	68850 *	59060 *	49091 *	40651 *	31912 *	23759 *	15964	8716	4293
-17.0	68908 *	61863 *	53587 *	45112 *	37562 *	29701 *	22097 *	14807	7943	4030
-19.5	59003 *	53525 *	47215 *	40315 *	33634 *	26741 *	19878 *	13199	7042	3834
-22.5	48932 *	45025 *	40363 *	34681 *	29086 *	23161 *	17257	11164	5829	3691
-25.5	40528 *	37564 *	33815 *	29246 *	24636 *	19620 *	14511	9213	4927	3525
-29.0	31852 *	29717 *	26851 *	23284 *	19654 *	15848	11287	7028	4075	3181
-33.0	23575 *	22015 *	19824 *	17240	14542	11355	7939	4997	3675	2740
-37.5	15854	14736	13204	11229	9299	7100	5013	3840	3093	2278
-42.5	8800	8021	7134	5925	4999	4117	3694	3108	2394	2008
-47.5	4383	4124	3925	3758	3569	3210	2776	2299	2008	1583
-55.0	2554	2461	2334	2234	2160	2062	1835	1578	1325	1093
-65.0	1212	1186	1149	1098	1054	988	908	805	692	589
-75.0	474	467	457	442	426	404	378	347	310	270
-85.0	91	89	87	83	80	77	73	67	60	52
-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	41	27	17	6	0
75.0	212	134	66	17	0
65.0	452	282	136	27	0
55.0	774	451	215	41	0
47.5	1083	590	273	53	0
42.5	1301	693	313	60	0
37.5	1564	803	351	67	0
33.0	1810	901	381	72	0
29.0	2006	982	407	77	0
25.5	2127	1053	426	80	0
22.5	2226	1102	441	82	0
19.5	2349	1151	455	85	0
17.0	2477	1186	465	86	0
15.0	2567	1211	473	87	0
13.0	2646	1233	480	88	0
11.0	2714	1252	486	91	0
9.0	2771	1266	491	91	0

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CANDELA TABULATION - (Cont.)

7.0	2817	1277	496	91	0
5.0	2858	1285	502	91	0
3.0	2900	1294	503	91	0
1.0	2909	1292	504	91	0
0.0	2914	1291	505	91	0
-1.0	2909	1292	504	91	0
-3.0	2900	1294	503	91	0
-5.0	2858	1285	502	91	0
-7.0	2817	1277	496	91	0
-9.0	2771	1266	491	91	0
-11.0	2714	1252	486	91	0
-13.0	2646	1233	480	88	0
-15.0	2567	1211	473	87	0
-17.0	2477	1186	465	86	0
-19.5	2349	1151	455	85	0
-22.5	2226	1102	441	82	0
-25.5	2127	1053	426	80	0
-29.0	2006	982	407	77	0
-33.0	1810	901	381	72	0
-37.5	1564	803	351	67	0
-42.5	1301	693	313	60	0
-47.5	1083	590	273	53	0
-55.0	774	451	215	41	0
-65.0	452	282	136	27	0
-75.0	212	134	66	17	0
-85.0	41	27	17	6	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 52500.81

Total Field Lumens (one side of beam only) = 46107.2

* 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	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.16
75	0.90	1.80	1.79	1.78	1.76	1.74	1.71	1.68	1.64	1.99
65	2.73	5.45	5.42	5.37	5.31	5.23	5.14	5.03	4.89	5.89
55	6.39	12.75	12.64	12.47	12.26	12.00	11.68	11.29	10.85	12.89
47.5	9.42	18.78	18.53	18.16	17.74	17.18	16.51	15.72	14.85	17.42
42.5	13.03	25.98	25.57	24.87	24.07	23.02	21.72	20.20	18.54	20.98
37.5	24.43	48.79	48.14	46.89	45.28	43.23	40.73	37.82	34.71	38.96
33	34.72 *	69.23 *	68.33 *	66.72 *	64.47 *	61.53 *	58.00 *	54.16 *	50.19 *	56.77 *
29	43.81 *	87.11 *	85.79 *	83.62 *	80.62 *	76.86 *	72.45 *	67.66 *	62.75 *	71.17 *
25.5	51.05 *	101.26 *	99.48 *	96.70 *	92.85 *	88.13 *	82.95 *	77.43 *	71.56 *	80.96 *
22.5	56.34 *	111.55 *	109.26 *	105.82 *	101.00 *	94.92 *	88.58 *	82.26 *	75.56 *	85.03 *
19.5	73.61 *	145.43 *	141.79 *	136.24 *	128.64 *	119.20 *	109.45 *	100.06 *	90.69 *	100.95 *
17	78.48 *	154.85 *	150.70 *	144.08 *	134.90 *	123.67 *	111.89 *	100.11 *	89.05 *	97.72 *
15	74.41 *	146.91 *	142.99 *	136.94 *	128.48 *	117.81 *	105.77 *	93.37 *	81.66 *	88.00 *
13	83.06 *	164.32 *	160.39 *	154.46 *	145.99 *	134.76 *	121.37 *	106.87 *	92.57 *	97.96 *
11	89.92 *	178.32 *	174.90 *	169.31 *	161.04 *	149.90 *	136.30 *	120.62 *	104.18 *	108.61 *
9	95.51 *	189.70 *	186.50 *	181.08 *	173.29 *	162.60 *	148.98 *	133.10 *	115.30 *	119.24 *
7	99.95 *	198.63 *	195.45 *	190.20 *	182.68 *	172.38 *	159.23 *	143.36 *	124.90 *	129.10 *
5	103.19 *	205.10 *	202.08 *	196.99 *	189.40 *	179.52 *	166.85 *	150.92 *	132.21 *	136.80 *
3	104.87 *	208.81 *	206.33 *	201.52 *	194.08 *	184.27 *	171.74 *	156.07 *	137.49 *	142.73 *
1	105.33 *	210.26 *	208.59 *	204.25 *	196.85 *	186.96 *	174.66 *	159.48 *	141.06 *	146.91 *
0	52.69 *	105.27 *	104.65 *	102.60 *	98.86 *	93.98 *	87.93 *	80.48 *	71.33 *	74.42 *
-1	52.69 *	105.27 *	104.65 *	102.60 *	98.86 *	93.98 *	87.93 *	80.48 *	71.33 *	74.42 *
	105.33 *	210.26 *	208.59 *	204.25 *	196.85 *	186.96 *	174.66 *	159.48 *	141.06 *	146.91 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	104.87 *	208.81 *	206.33 *	201.52 *	194.08 *	184.27 *	171.74 *	156.07 *	137.49 *	142.73 *
-5	103.19 *	205.10 *	202.08 *	196.99 *	189.40 *	179.52 *	166.85 *	150.92 *	132.21 *	136.80 *
-7	99.95 *	198.63 *	195.45 *	190.20 *	182.68 *	172.38 *	159.23 *	143.36 *	124.90 *	129.10 *
-9	95.51 *	189.70 *	186.50 *	181.08 *	173.29 *	162.60 *	148.98 *	133.10 *	115.30 *	119.24 *
-11	89.92 *	178.32 *	174.90 *	169.31 *	161.04 *	149.90 *	136.30 *	120.62 *	104.18 *	108.61 *
-13	83.06 *	164.32 *	160.39 *	154.46 *	145.99 *	134.76 *	121.37 *	106.87 *	92.57 *	97.96 *
-15	74.41 *	146.91 *	142.99 *	136.94 *	128.48 *	117.81 *	105.77 *	93.37 *	81.66 *	88.00 *
-17	78.48 *	154.85 *	150.70 *	144.08 *	134.90 *	123.67 *	111.89 *	100.11 *	89.05 *	97.72 *
-19.5	73.61 *	145.43 *	141.79 *	136.24 *	128.64 *	119.20 *	109.45 *	100.06 *	90.69 *	100.95 *
-22.5	56.34 *	111.55 *	109.26 *	105.82 *	101.00 *	94.92 *	88.58 *	82.26 *	75.56 *	85.03 *
-25.5	51.05 *	101.26 *	99.48 *	96.70 *	92.85 *	88.13 *	82.95 *	77.43 *	71.56 *	80.96 *
-29	43.81 *	87.11 *	85.79 *	83.62 *	80.62 *	76.86 *	72.45 *	67.66 *	62.75 *	71.17 *
-33	34.72 *	69.23 *	68.33 *	66.72 *	64.47 *	61.53 *	58.00 *	54.16 *	50.19 *	56.77 *
-37.5	24.43	48.79	48.14	46.89	45.28	43.23	40.73	37.82	34.71	38.96
-42.5	13.03	25.98	25.57	24.87	24.07	23.02	21.72	20.20	18.54	20.98
-47.5	9.42	18.78	18.53	18.16	17.74	17.18	16.51	15.72	14.85	17.42
-55	6.39	12.75	12.64	12.47	12.26	12.00	11.68	11.29	10.85	12.89
-65	2.73	5.45	5.42	5.37	5.31	5.23	5.14	5.03	4.89	5.89
-75	0.90	1.80	1.79	1.78	1.76	1.74	1.71	1.68	1.64	1.99
-85	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.16
-90										
Total	2407.87	4780.92	4698.9	4560.39	4359.39	4098.03	3787.51	3435.62	3052.25	3269.27

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.18	0.17	0.19	0.20	0.20	0.19	0.15	0.17	0.13	0.06
85	2.28	2.15	2.34	2.43	2.42	2.29	1.86	2.05	1.57	0.63
75	6.71	6.30	6.80	6.99	6.82	6.28	5.01	5.44	4.11	1.61
65	14.53	13.66	14.84	15.12	14.34	12.83	9.96	10.39	7.45	2.82
55	19.60	18.35	19.55	19.35	17.81	15.77	12.13	12.15	8.27	2.98

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LUMENS TABULATION - (Cont.)

47.5										
	22.12	19.04	18.83	18.01	16.62	14.30	10.76	10.67	6.97	2.43
42.5										
	39.98	32.82	30.23	26.01	21.90	18.13	13.15	12.77	8.29	2.81
37.5										
	59.02	49.12	45.09	36.90	27.43	20.48	14.28	13.49	8.69	2.85
33										
	74.39 *	62.37 *	58.19	48.48	34.97	23.07	14.72	13.91	8.67	2.78
29										
	84.49 *	70.72 *	66.14 *	55.98	41.17	25.76	14.80	13.55	8.21	2.61
25.5										
	88.36 *	73.66 *	68.59 *	58.38 *	43.77	27.23	14.51	12.40	7.42	2.36
22.5										
	104.01 *	86.22 *	80.05 *	68.16 *	51.62	32.57	16.47	12.97	7.79	2.46
19.5										
	99.29 *	81.71 *	75.60 *	64.23 *	48.95 *	31.34	15.38	11.33	6.81	2.12
17										
	88.23 *	71.96 *	66.26 *	56.11 *	42.88 *	27.66	13.45	9.55	5.66	1.74
15										
	96.42 *	77.74 *	71.19 *	60.09 *	45.92 *	29.87	14.53	10.02	5.82	1.77
13										
	104.59 *	83.12 *	75.71 *	63.81 *	48.70 *	31.88	15.50	10.43	5.97	1.80
11										
	112.98 *	88.26 *	79.74 *	67.06 *	51.13 *	33.58	16.33	10.77	6.09	1.82
9										
	120.80 *	92.98 *	83.35 *	69.80 *	53.13 *	34.95	17.01	11.05	6.18	1.84
7										
	126.97 *	96.79 *	86.33 *	72.06 *	54.68 *	36.01	17.54	11.27	6.26	1.85
5										
	131.94 *	99.71 *	88.54 *	73.75 *	55.82 *	36.81	17.99	11.47	6.34	1.86
3										
	135.60 *	101.65 *	89.90 *	74.81 *	56.56 *	37.24	18.17	11.59	6.39	1.87
1										
	68.65 *	51.24 *	45.22 *	37.62 *	28.43 *	18.66	9.06	5.80	3.20	0.93
0										
	68.65 *	51.24 *	45.22 *	37.62 *	28.43 *	18.66	9.06	5.80	3.20	0.93
-1										
	135.60 *	101.65 *	89.90 *	74.81 *	56.56 *	37.24	18.17	11.59	6.39	1.87
-3										
	131.94 *	99.71 *	88.54 *	73.75 *	55.82 *	36.81	17.99	11.47	6.34	1.86
-5										
	126.97 *	96.79 *	86.33 *	72.06 *	54.68 *	36.01	17.54	11.27	6.26	1.85
-7										
	120.80 *	92.98 *	83.35 *	69.80 *	53.13 *	34.95	17.01	11.05	6.18	1.84
-9										
	112.98 *	88.26 *	79.74 *	67.06 *	51.13 *	33.58	16.33	10.77	6.09	1.82
-11										
	104.59 *	83.12 *	75.71 *	63.81 *	48.70 *	31.88	15.50	10.43	5.97	1.80
-13										
	96.42 *	77.74 *	71.19 *	60.09 *	45.92 *	29.87	14.53	10.02	5.82	1.77
-15										
	88.23 *	71.96 *	66.26 *	56.11 *	42.88 *	27.66	13.45	9.55	5.66	1.74
-17										
	99.29 *	81.71 *	75.60 *	64.23 *	48.95 *	31.34	15.38	11.33	6.81	2.12
-19.5										
	104.01 *	86.22 *	80.05 *	68.16 *	51.62	32.57	16.47	12.97	7.79	2.46

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LUMENS TABULATION - (Cont.)

-22.5	88.36 *	73.66 *	68.59 *	58.38 *	43.77	27.23	14.51	12.40	7.42	2.36
-25.5	84.49 *	70.72 *	66.14 *	55.98	41.17	25.76	14.80	13.55	8.21	2.61
-29	74.39 *	62.37 *	58.19	48.48	34.97	23.07	14.72	13.91	8.67	2.78
-33	59.02	49.12	45.09	36.90	27.43	20.48	14.28	13.49	8.69	2.85
-37.5	39.98	32.82	30.23	26.01	21.90	18.13	13.15	12.77	8.29	2.81
-42.5	22.12	19.04	18.83	18.01	16.62	14.30	10.76	10.67	6.97	2.43
-47.5	19.60	18.35	19.55	19.35	17.81	15.77	12.13	12.15	8.27	2.98
-55	14.53	13.66	14.84	15.12	14.34	12.83	9.96	10.39	7.45	2.82
-65	6.71	6.30	6.80	6.99	6.82	6.28	5.01	5.44	4.11	1.61
-75	2.28	2.15	2.34	2.43	2.42	2.29	1.86	2.05	1.57	0.63
-85	0.18	0.17	0.19	0.20	0.20	0.19	0.15	0.17	0.13	0.06
-90										
Total	3202.23	2559.49	2345.34	1990.74	1530.53	1033.78	565.47	446.50	272.59	87.98

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.02	0.00		2.97
85				
	0.14	0.00		36.96
75				
	0.32	0.01		106.86
65				
	0.55	0.01		231.73
55				
	0.58	0.01		310.84
47.5				
	0.46	0.01		358.17
42.5				
	0.52	0.01		615.58
37.5				
	0.52	0.01		862.00
33				
	0.50	0.01		1073.9
29				
	0.46	0.01		1226.28
25.5				
	0.41	0.01		1307.41
22.5				
	0.42	0.01		1608.79
19.5				
	0.36	0.01		1622.57
17				
	0.29	0.01		1500.13

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

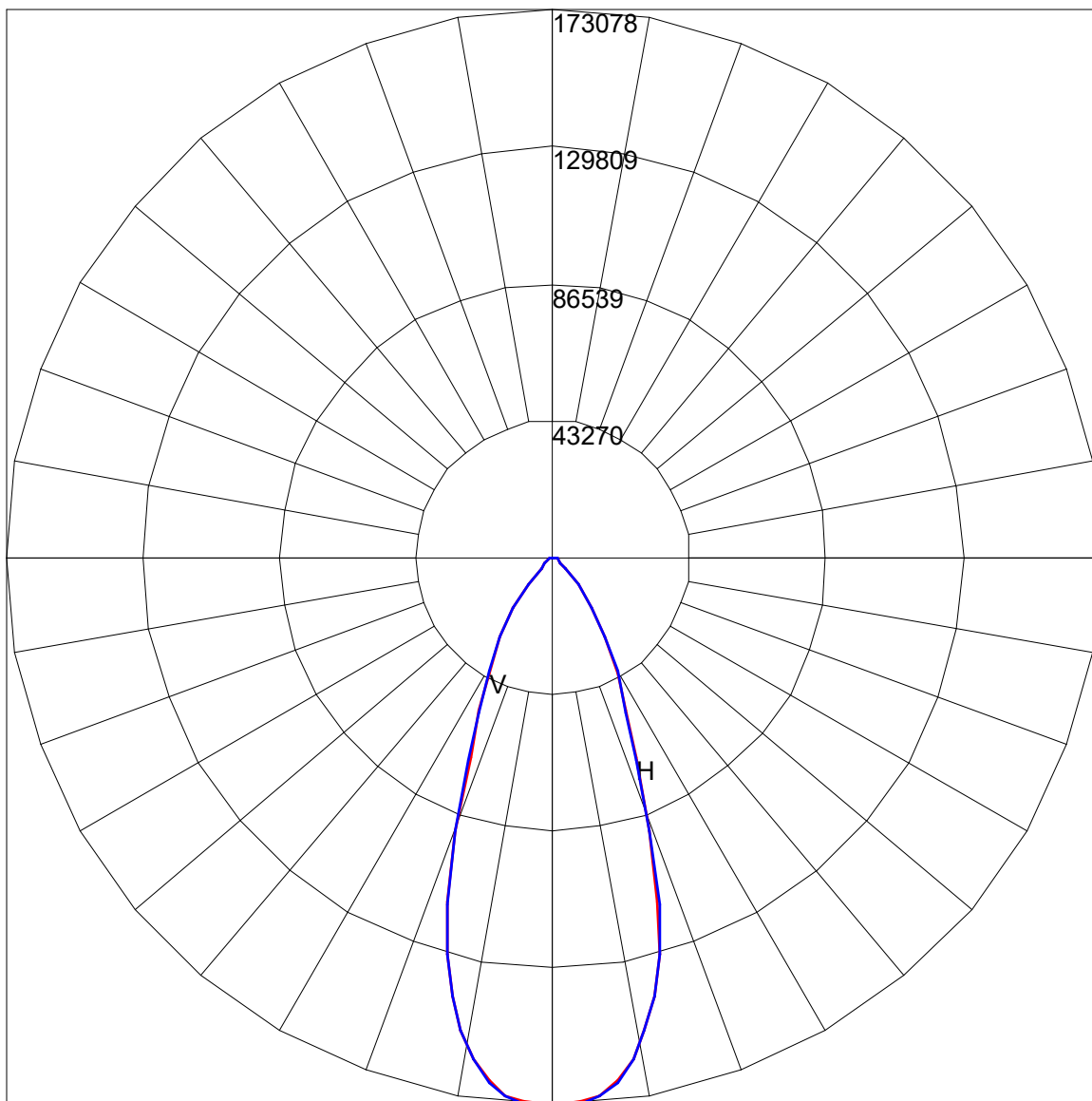
15	0.30	0.01	1675.42
13	0.30	0.01	1834.91
11	0.31	0.01	1973.38
9	0.31	0.01	2087.28
7	0.31	0.01	2173.12
5	0.31	0.01	2232.48
3	0.31	0.01	2268.45
1	0.16	0.00	1141.17
0	0.16	0.00	1141.17
-1	0.31	0.01	2268.45
-3	0.31	0.01	2232.48
-5	0.31	0.01	2173.12
-7	0.31	0.01	2087.28
-9	0.31	0.01	1973.38
-11	0.30	0.01	1834.91
-13	0.30	0.01	1675.42
-15	0.29	0.01	1500.13
-17	0.36	0.01	1622.57
-19.5	0.42	0.01	1608.79
-22.5	0.41	0.01	1307.41
-25.5	0.46	0.01	1226.28
-29	0.50	0.01	1073.9
-33	0.52	0.01	862.00
-37.5	0.52	0.01	615.58
-42.5	0.46	0.01	358.17
-47.5	0.58	0.01	310.84
-55	0.55	0.01	231.73
-65	0.32	0.01	106.86

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

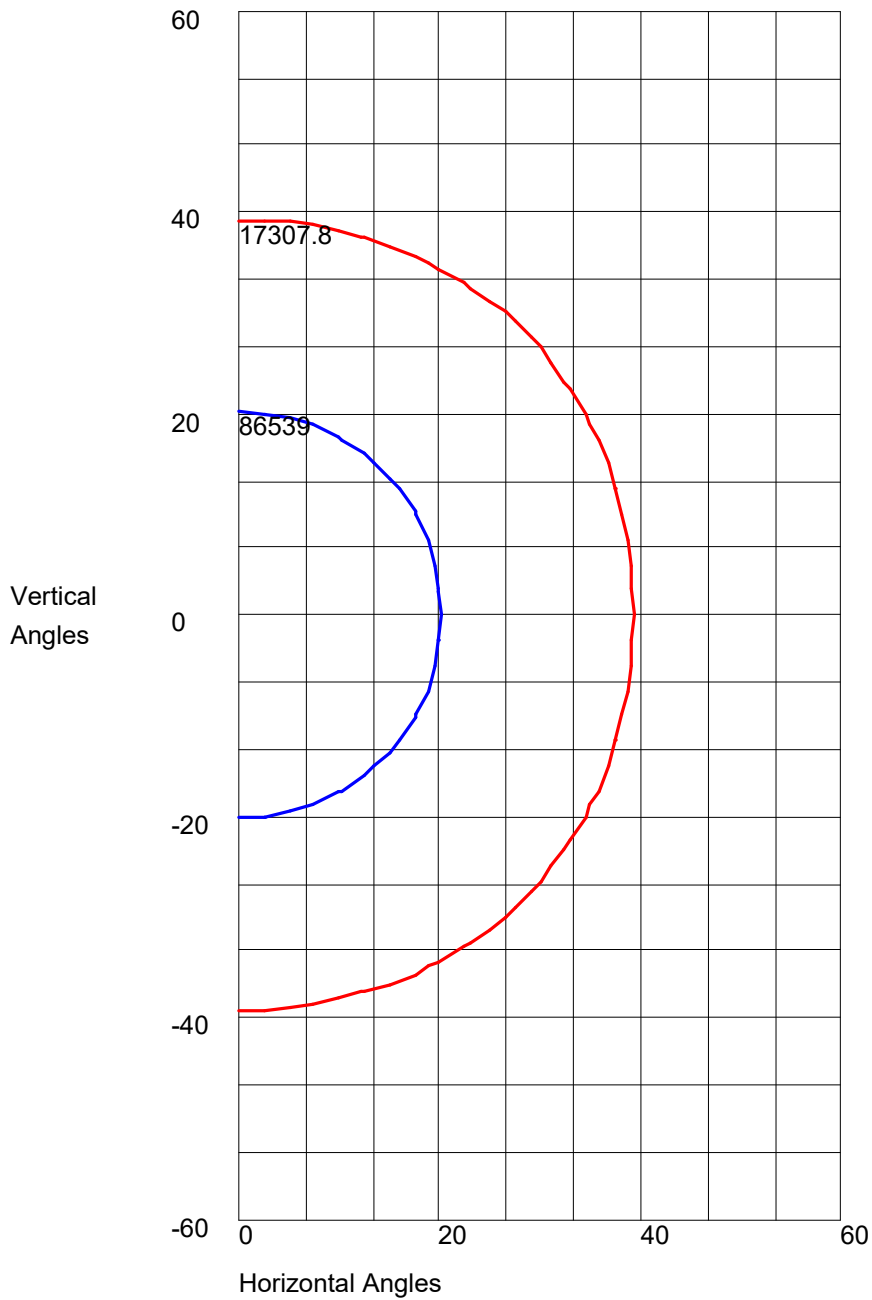
-75	0.14	0.00	36.96
-85	0.02	0.00	2.97
-90			
Total	15.72	0.32	52500.84

AXIAL CANDELA DISPLAY



Maximum Candela = 173078 Located At Horizontal Angle =-1, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 173078 Located At Horizontal Angle =-1, Vertical Angle =-1
50% Maximum Candela = 86539
10% Maximum Candela = 17307.8