



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-WF-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-13764

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 12/22/22

[TESTDATE] 11/23/22

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ZNF-100L-WF-50

[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] 5000

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

CHARACTERISTICS

NEMA Type	6 H x 6 V
Maximum Candela	115024
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	44.7
Vertical Beam Angle (50%)	45.1
Horizontal Field Angle (10%)	107.3
Vertical Field Angle (10%)	107.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	40861
Beam Efficiency	N.A.
Field Lumens	96759
Field Efficiency	N.A.
Spill Lumens	9887
Luminaire Lumens	106646
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	167	85	164
75	1087	75	1107
65	3066	65	3107
55	10175	55	10256
47.5	17510	47.5	17612
42.5	22913	42.5	22994
37.5	28044	37.5	28008
33	33386	33	33439
29	39294	29	39429
25.5	46790	25.5	47562
22.5	56926	22.5	57640
19.5	69772	19.5	69923
17	79912	17	80020
15	87457	15	87591
13	94085	13	94339
11	100027	11	100239
9	105324	9	105274
7	109787	7	109435
5	113001	5	112716
3	114611	3	114605
1	114998	1	115024
0	114988	0	114988
-1	114998	-1	115024
-3	114611	-3	114605
-5	113001	-5	112716
-7	109787	-7	109435
-9	105324	-9	105274
-11	100027	-11	100239
-13	94085	-13	94339
-15	87457	-15	87591
-17	79912	-17	80020
-19.5	69772	-19.5	69923
-22.5	56926	-22.5	57640
-25.5	46790	-25.5	47562
-29	39294	-29	39429
-33	33386	-33	33439
-37.5	28044	-37.5	28008
-42.5	22913	-42.5	22994
-47.5	17510	-47.5	17612
-55	10175	-55	10256
-65	3066	-65	3107
-75	1087	-75	1107
-85	167	-85	164
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 115024

Beam Edge = 57512 Cd (50% of Max.)

Field Edge = 11502.4 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	9	28	45	70	94	109	121	132	139
75.0	0	27	115	251	421	551	644	732	804	871
65.0	0	45	249	573	984	1327	1573	1818	2037	2220
55.0	0	69	415	979	1737	2461	3054	4021	5141	6162
47.5	0	92	546	1323	2459	4101	5931	8020	9745	11337
42.5	0	106	641	1567	3069	5961	8405	10918	13232 *	15224 *
37.5	0	119	726	1808	4064	8074	10953	14048 *	16851 *	19190 *
33.0	0	130	796	2034	5155	9806	13225 *	16783 *	19937 *	22770 *
29.0	0	138	862	2226	6120	11343	15185 *	19088 *	22722 *	25583 *
25.5	0	144	914	2390	6980	12598 *	16776 *	21034 *	24751 *	27723 *
22.5	0	149	954	2520	7639	13654 *	18039 *	22643 *	26331 *	29726 *
19.5	0	154	989	2655	8238	14608 *	19209 *	23943 *	27793 *	31650 *
17.0	0	157	1014	2754	8689	15318 *	20089 *	24865 *	29016 *	33145 *
15.0	0	159	1031	2823	9008	15803 *	20741 *	25526 *	29908 *	34255 *
13.0	0	161	1046	2885	9290	16230 *	21298 *	26141 *	30683 *	35332 *
11.0	0	167	1058	2938	9532	16599 *	21769 *	26676 *	31377 *	36267 *
9.0	0	167	1069	2981	9735	16906 *	22166 *	27125 *	31988 *	37051 *
7.0	0	167	1077	3015	9899	17151 *	22485 *	27485 *	32495 *	37793 *
5.0	0	167	1089	3041	10029	17334 *	22725 *	27754 *	32878 *	38440 *
3.0	0	167	1088	3068	10165	17526 *	22963 *	27936 *	33141 *	38888 *
1.0	0	167	1087	3067	10171	17515 *	22930 *	28042 *	33336 *	39212 *
0.0	0	167	1087	3066	10175	17510 *	22913 *	28044 *	33386 *	39294 *
-1.0	0	167	1087	3067	10171	17515 *	22930 *	28042 *	33336 *	39212 *
-3.0	0	167	1088	3068	10165	17526 *	22963 *	27936 *	33141 *	38888 *
-5.0	0	167	1089	3041	10029	17334 *	22725 *	27754 *	32878 *	38440 *
-7.0	0	167	1077	3015	9899	17151 *	22485 *	27485 *	32495 *	37793 *
-9.0	0	167	1069	2981	9735	16906 *	22166 *	27125 *	31988 *	37051 *
-11.0	0	167	1058	2938	9532	16599 *	21769 *	26676 *	31377 *	36267 *
-13.0	0	161	1046	2885	9290	16230 *	21298 *	26141 *	30683 *	35332 *
-15.0	0	159	1031	2823	9008	15803 *	20741 *	25526 *	29908 *	34255 *
-17.0	0	157	1014	2754	8689	15318 *	20089 *	24865 *	29016 *	33145 *
-19.5	0	154	989	2655	8238	14608 *	19209 *	23943 *	27793 *	31650 *
-22.5	0	149	954	2520	7639	13654 *	18039 *	22643 *	26331 *	29726 *
-25.5	0	144	914	2390	6980	12598 *	16776 *	21034 *	24751 *	27723 *
-29.0	0	138	862	2226	6120	11343	15185 *	19088 *	22722 *	25583 *
-33.0	0	130	796	2034	5155	9806	13225 *	16783 *	19937 *	22770 *
-37.5	0	119	726	1808	4064	8074	10953	14048 *	16851 *	19190 *
-42.5	0	106	641	1567	3069	5961	8405	10918	13232 *	15224 *
-47.5	0	92	546	1323	2459	4101	5931	8020	9745	11337
-55.0	0	69	415	979	1737	2461	3054	4021	5141	6162
-65.0	0	45	249	573	984	1327	1573	1818	2037	2220
-75.0	0	27	115	251	421	551	644	732	804	871
-85.0	0	9	28	45	70	94	109	121	132	139
-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	145	150	155	159	162	164	170	170	170	170
75.0	924	963	997	1022	1040	1055	1067	1077	1085	1097
65.0	2377	2511	2657	2763	2839	2904	2961	3008	3047	3077
55.0	7039	7717	8316	8761	9078	9360	9603	9805	9967	10087
47.5	12632 *	13676 *	14609 *	15302 *	15809 *	16262 *	16660 *	16997 *	17271 *	17479 *
42.5	16808 *	18074 *	19220 *	20047 *	20710 *	21312 *	21837 *	22263 *	22602 *	22861 *
37.5	21142 *	22684 *	23982 *	24935 *	25623 *	26230 *	26757 *	27205 *	27579 *	27863 *
33.0	24811 *	26423 *	27902 *	29092 *	29967 *	30749 *	31477 *	32111 *	32634 *	33039 *
29.0	27768 *	29730 *	31630 *	33142 *	34280 *	35478 *	36483 *	37297 *	38038 *	38729 *
25.5	30451 *	32765 *	35149 *	37171 *	38888 *	40553 *	42022 *	43638 *	45032 *	46106 *
22.5	32808 *	35533 *	38494 *	41239 *	43799 *	46425 *	48887 *	51616 *	53776 *	55409 *
19.5	35182 *	38513 *	42331 *	46458 *	50265 *	54368 *	58181 *	61919 *	64817 *	67016 *
17.0	37097 *	41196 *	46509 *	52068 *	56977 *	62266 *	67082 *	71117 *	74505 *	77306 *
15.0	38722 *	43640 *	50289 *	57023 *	63020 *	68773 *	73853 *	78257 *	81718 *	84615 *
13.0	40285 *	46136 *	54277 *	62306 *	68798 *	74864 *	80224 *	84805 *	88505 *	91262 *
11.0	41613 *	48402 *	57957 *	67096 *	73888 *	80213 *	85841 *	90577 *	94408 *	97202 *
9.0	43113 *	50973 *	61662 *	71152 *	78314 *	84713 *	90468 *	95650 *	99362 *	102312 *
7.0	44382 *	53082 *	64740 *	74520 *	81784 *	88478 *	94257 *	99223 *	103572 *	106320 *
5.0	45480 *	54814 *	67144 *	77123 *	84580 *	91308 *	97222 *	102264 *	106317 *	109623 *
3.0	46258 *	56026 *	68693 *	78939 *	86555 *	93347 *	99374 *	104442 *	108710 *	111590 *
1.0	46700 *	56818 *	69561 *	79838 *	87619 *	94152 *	100211 *	105457 *	109756 *	113083 *
0.0	46790 *	56926 *	69772 *	79912 *	87457 *	94085 *	100027 *	105324 *	109787 *	113001 *
-1.0	46700 *	56818 *	69561 *	79838 *	87619 *	94152 *	100211 *	105457 *	109756 *	113083 *
-3.0	46258 *	56026 *	68693 *	78939 *	86555 *	93347 *	99374 *	104442 *	108710 *	111590 *
-5.0	45480 *	54814 *	67144 *	77123 *	84580 *	91308 *	97222 *	102264 *	106317 *	109623 *
-7.0	44382 *	53082 *	64740 *	74520 *	81784 *	88478 *	94257 *	99223 *	103572 *	106320 *
-9.0	43113 *	50973 *	61662 *	71152 *	78314 *	84713 *	90468 *	95650 *	99362 *	102312 *
-11.0	41613 *	48402 *	57957 *	67096 *	73888 *	80213 *	85841 *	90577 *	94408 *	97202 *
-13.0	40285 *	46136 *	54277 *	62306 *	68798 *	74864 *	80224 *	84805 *	88505 *	91262 *
-15.0	38722 *	43640 *	50289 *	57023 *	63020 *	68773 *	73853 *	78257 *	81718 *	84615 *
-17.0	37097 *	41196 *	46509 *	52068 *	56977 *	62266 *	67082 *	71117 *	74505 *	77306 *
-19.5	35182 *	38513 *	42331 *	46458 *	50265 *	54368 *	58181 *	61919 *	64817 *	67016 *
-22.5	32808 *	35533 *	38494 *	41239 *	43799 *	46425 *	48887 *	51616 *	53776 *	55409 *
-25.5	30451 *	32765 *	35149 *	37171 *	38888 *	40553 *	42022 *	43638 *	45032 *	46106 *
-29.0	27768 *	29730 *	31630 *	33142 *	34280 *	35478 *	36483 *	37297 *	38038 *	38729 *
-33.0	24811 *	26423 *	27902 *	29092 *	29967 *	30749 *	31477 *	32111 *	32634 *	33039 *
-37.5	21142 *	22684 *	23982 *	24935 *	25623 *	26230 *	26757 *	27205 *	27579 *	27863 *
-42.5	16808 *	18074 *	19220 *	20047 *	20710 *	21312 *	21837 *	22263 *	22602 *	22861 *
-47.5	12632 *	13676 *	14609 *	15302 *	15809 *	16262 *	16660 *	16997 *	17271 *	17479 *
-55.0	7039	7717	8316	8761	9078	9360	9603	9805	9967	10087
-65.0	2377	2511	2657	2763	2839	2904	2961	3008	3047	3077
-75.0	924	963	997	1022	1040	1055	1067	1077	1085	1097
-85.0	145	150	155	159	162	164	170	170	170	170
-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	168	165	164	165	168	170	170	170	170	164
75.0	1101	1105	1107	1105	1101	1097	1085	1077	1067	1055
65.0	3106	3107	3107	3107	3106	3077	3047	3008	2961	2904

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CANDELA TABULATION - (Cont.)

55.0	10227	10246	10256	10246	10227	10087	9967	9805	9603	9360
47.5	17679 *	17634 *	17612 *	17634 *	17679 *	17479 *	17271 *	16997 *	16660 *	16262 *
42.5	23119 *	23036 *	22994 *	23036 *	23119 *	22861 *	22602 *	22263 *	21837 *	21312 *
37.5	28052 *	28057 *	28008 *	28057 *	28052 *	27863 *	27579 *	27205 *	26757 *	26230 *
33.0	33317 *	33433 *	33439 *	33433 *	33317 *	33039 *	32634 *	32111 *	31477 *	30749 *
29.0	39194 *	39410 *	39429 *	39410 *	39194 *	38729 *	38038 *	37297 *	36483 *	35478 *
25.5	46827 *	47363 *	47562 *	47363 *	46827 *	46106 *	45032 *	43638 *	42022 *	40553 *
22.5	56491 *	57359 *	57640 *	57359 *	56491 *	55409 *	53776 *	51616 *	48887 *	46425 *
19.5	68813 *	69765 *	69923 *	69765 *	68813 *	67016 *	64817 *	61919 *	58181 *	54368 *
17.0	79059 *	79880 *	80020 *	79880 *	79059 *	77306 *	74505 *	71117 *	67082 *	62266 *
15.0	86613 *	87717 *	87591 *	87717 *	86613 *	84615 *	81718 *	78257 *	73853 *	68773 *
13.0	93350 *	94468 *	94339 *	94468 *	93350 *	91262 *	88505 *	84805 *	80224 *	74864 *
11.0	99297 *	100403 *	100239 *	100403 *	99297 *	97202 *	94408 *	90577 *	85841 *	80213 *
9.0	104367 *	105393 *	105274 *	105393 *	104367 *	102312 *	99362 *	95650 *	90468 *	84713 *
7.0	108410 *	109501 *	109435 *	109501 *	108410 *	106320 *	103572 *	99223 *	94257 *	88478 *
5.0	111479 *	112827 *	112716 *	112827 *	111479 *	109623 *	106317 *	102264 *	97222 *	91308 *
3.0	113571 *	114434 *	114605 *	114434 *	113571 *	111590 *	108710 *	104442 *	99374 *	93347 *
1.0	114528 *	115009 *	115024 *	115009 *	114528 *	113083 *	109756 *	105457 *	100211 *	94152 *
0.0	114611 *	114998 *	114988 *	114998 *	114611 *	113001 *	109787 *	105324 *	100027 *	94085 *
-1.0	114528 *	115009 *	115024 *	115009 *	114528 *	113083 *	109756 *	105457 *	100211 *	94152 *
-3.0	113571 *	114434 *	114605 *	114434 *	113571 *	111590 *	108710 *	104442 *	99374 *	93347 *
-5.0	111479 *	112827 *	112716 *	112827 *	111479 *	109623 *	106317 *	102264 *	97222 *	91308 *
-7.0	108410 *	109501 *	109435 *	109501 *	108410 *	106320 *	103572 *	99223 *	94257 *	88478 *
-9.0	104367 *	105393 *	105274 *	105393 *	104367 *	102312 *	99362 *	95650 *	90468 *	84713 *
-11.0	99297 *	100403 *	100239 *	100403 *	99297 *	97202 *	94408 *	90577 *	85841 *	80213 *
-13.0	93350 *	94468 *	94339 *	94468 *	93350 *	91262 *	88505 *	84805 *	80224 *	74864 *
-15.0	86613 *	87717 *	87591 *	87717 *	86613 *	84615 *	81718 *	78257 *	73853 *	68773 *
-17.0	79059 *	79880 *	80020 *	79880 *	79059 *	77306 *	74505 *	71117 *	67082 *	62266 *
-19.5	68813 *	69765 *	69923 *	69765 *	68813 *	67016 *	64817 *	61919 *	58181 *	54368 *
-22.5	56491 *	57359 *	57640 *	57359 *	56491 *	55409 *	53776 *	51616 *	48887 *	46425 *
-25.5	46827 *	47363 *	47562 *	47363 *	46827 *	46106 *	45032 *	43638 *	42022 *	40553 *
-29.0	39194 *	39410 *	39429 *	39410 *	39194 *	38729 *	38038 *	37297 *	36483 *	35478 *
-33.0	33317 *	33433 *	33439 *	33433 *	33317 *	33039 *	32634 *	32111 *	31477 *	30749 *
-37.5	28052 *	28057 *	28008 *	28057 *	28052 *	27863 *	27579 *	27205 *	26757 *	26230 *
-42.5	23119 *	23036 *	22994 *	23036 *	23119 *	22861 *	22602 *	22263 *	21837 *	21312 *
-47.5	17679 *	17634 *	17612 *	17634 *	17679 *	17479 *	17271 *	16997 *	16660 *	16262 *
-55.0	10227	10246	10256	10246	10227	10087	9967	9805	9603	9360
-65.0	3106	3107	3107	3107	3106	3077	3047	3008	2961	2904
-75.0	1101	1105	1107	1105	1101	1097	1085	1077	1067	1055
-85.0	168	165	164	165	168	170	170	170	170	164
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>15.0</u>	<u>17.0</u>	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29.0</u>	<u>33.0</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	162	159	155	150	145	139	132	121	109	94
75.0	1040	1022	997	963	924	871	804	732	644	551
65.0	2839	2763	2657	2511	2377	2220	2037	1818	1573	1327
55.0	9078	8761	8316	7717	7039	6162	5141	4021	3054	2461
47.5	15809 *	15302 *	14609 *	13676 *	12632 *	11337	9745	8020	5931	4101
42.5	20710 *	20047 *	19220 *	18074 *	16808 *	15224 *	13232 *	10918	8405	5961
37.5	25623 *	24935 *	23982 *	22684 *	21142 *	19190 *	16851 *	14048 *	10953	8074
33.0	29967 *	29092 *	27902 *	26423 *	24811 *	22770 *	19937 *	16783 *	13225 *	9806
29.0	34280 *	33142 *	31630 *	29730 *	27768 *	25583 *	22722 *	19088 *	15185 *	11343
25.5	38888 *	37171 *	35149 *	32765 *	30451 *	27723 *	24751 *	21034 *	16776 *	12598 *

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CANDELA TABULATION - (Cont.)

22.5	43799 *	41239 *	38494 *	35533 *	32808 *	29726 *	26331 *	22643 *	18039 *	13654 *
19.5	50265 *	46458 *	42331 *	38513 *	35182 *	31650 *	27793 *	23943 *	19209 *	14608 *
17.0	56977 *	52068 *	46509 *	41196 *	37097 *	33145 *	29016 *	24865 *	20089 *	15318 *
15.0	63020 *	57023 *	50289 *	43640 *	38722 *	34255 *	29908 *	25526 *	20741 *	15803 *
13.0	68798 *	62306 *	54277 *	46136 *	40285 *	35332 *	30683 *	26141 *	21298 *	16230 *
11.0	73888 *	67096 *	57957 *	48402 *	41613 *	36267 *	31377 *	26676 *	21769 *	16599 *
9.0	78314 *	71152 *	61662 *	50973 *	43113 *	37051 *	31988 *	27125 *	22166 *	16906 *
7.0	81784 *	74520 *	64740 *	53082 *	44382 *	37793 *	32495 *	27485 *	22485 *	17151 *
5.0	84580 *	77123 *	67144 *	54814 *	45480 *	38440 *	32878 *	27754 *	22725 *	17334 *
3.0	86555 *	78939 *	68693 *	56026 *	46258 *	38888 *	33141 *	27936 *	22963 *	17526 *
1.0	87619 *	79838 *	69561 *	56818 *	46700 *	39212 *	33336 *	28042 *	22930 *	17515 *
0.0	87457 *	79912 *	69772 *	56926 *	46790 *	39294 *	33386 *	28044 *	22913 *	17510 *
-1.0	87619 *	79838 *	69561 *	56818 *	46700 *	39212 *	33336 *	28042 *	22930 *	17515 *
-3.0	86555 *	78939 *	68693 *	56026 *	46258 *	38888 *	33141 *	27936 *	22963 *	17526 *
-5.0	84580 *	77123 *	67144 *	54814 *	45480 *	38440 *	32878 *	27754 *	22725 *	17334 *
-7.0	81784 *	74520 *	64740 *	53082 *	44382 *	37793 *	32495 *	27485 *	22485 *	17151 *
-9.0	78314 *	71152 *	61662 *	50973 *	43113 *	37051 *	31988 *	27125 *	22166 *	16906 *
-11.0	73888 *	67096 *	57957 *	48402 *	41613 *	36267 *	31377 *	26676 *	21769 *	16599 *
-13.0	68798 *	62306 *	54277 *	46136 *	40285 *	35332 *	30683 *	26141 *	21298 *	16230 *
-15.0	63020 *	57023 *	50289 *	43640 *	38722 *	34255 *	29908 *	25526 *	20741 *	15803 *
-17.0	56977 *	52068 *	46509 *	41196 *	37097 *	33145 *	29016 *	24865 *	20089 *	15318 *
-19.5	50265 *	46458 *	42331 *	38513 *	35182 *	31650 *	27793 *	23943 *	19209 *	14608 *
-22.5	43799 *	41239 *	38494 *	35533 *	32808 *	29726 *	26331 *	22643 *	18039 *	13654 *
-25.5	38888 *	37171 *	35149 *	32765 *	30451 *	27723 *	24751 *	21034 *	16776 *	12598 *
-29.0	34280 *	33142 *	31630 *	29730 *	27768 *	25583 *	22722 *	19088 *	15185 *	11343
-33.0	29967 *	29092 *	27902 *	26423 *	24811 *	22770 *	19937 *	16783 *	13225 *	9806
-37.5	25623 *	24935 *	23982 *	22684 *	21142 *	19190 *	16851 *	14048 *	10953	8074
-42.5	20710 *	20047 *	19220 *	18074 *	16808 *	15224 *	13232 *	10918	8405	5961
-47.5	15809 *	15302 *	14609 *	13676 *	12632 *	11337	9745	8020	5931	4101
-55.0	9078	8761	8316	7717	7039	6162	5141	4021	3054	2461
-65.0	2839	2763	2657	2511	2377	2220	2037	1818	1573	1327
-75.0	1040	1022	997	963	924	871	804	732	644	551
-85.0	162	159	155	150	145	139	132	121	109	94
-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	70	45	28	9	0
75.0	421	251	115	27	0
65.0	984	573	249	45	0
55.0	1737	979	415	69	0
47.5	2459	1323	546	92	0
42.5	3069	1567	641	106	0
37.5	4064	1808	726	119	0
33.0	5155	2034	796	130	0
29.0	6120	2226	862	138	0
25.5	6980	2390	914	144	0
22.5	7639	2520	954	149	0
19.5	8238	2655	989	154	0
17.0	8689	2754	1014	157	0
15.0	9008	2823	1031	159	0
13.0	9290	2885	1046	161	0
11.0	9532	2938	1058	167	0
9.0	9735	2981	1069	167	0

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CANDELA TABULATION - (Cont.)

7.0	9899	3015	1077	167	0
5.0	10029	3041	1089	167	0
3.0	10165	3068	1088	167	0
1.0	10171	3067	1087	167	0
0.0	10175	3066	1087	167	0
-1.0	10171	3067	1087	167	0
-3.0	10165	3068	1088	167	0
-5.0	10029	3041	1089	167	0
-7.0	9899	3015	1077	167	0
-9.0	9735	2981	1069	167	0
-11.0	9532	2938	1058	167	0
-13.0	9290	2885	1046	161	0
-15.0	9008	2823	1031	159	0
-17.0	8689	2754	1014	157	0
-19.5	8238	2655	989	154	0
-22.5	7639	2520	954	149	0
-25.5	6980	2390	914	144	0
-29.0	6120	2226	862	138	0
-33.0	5155	2034	796	130	0
-37.5	4064	1808	726	119	0
-42.5	3069	1567	641	106	0
-47.5	2459	1323	546	92	0
-55.0	1737	979	415	69	0
-65.0	984	573	249	45	0
-75.0	421	251	115	27	0
-85.0	70	45	28	9	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) = 53322.93

Total Field Lumens (one side of beam only) = 48379.64

* 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	0.13	0.25	0.26	0.26	0.26	0.26	0.25	0.25	0.24	0.23
75	1.93	3.86	3.85	3.82	3.77	3.73	3.66	3.58	3.49	4.22
65	6.42	12.81	12.73	12.58	12.39	12.17	11.90	11.58	11.22	13.45
55	20.34	40.62	40.26	39.65	38.95	38.06	36.99	35.73	34.32	40.67
47.5	31.84 *	63.68 *	63.21 *	62.26 *	61.13 *	59.69 *	57.97 *	55.98 *	53.75 *	63.71 *
42.5	30.95 *	62.00 *	61.64 *	60.75 *	59.67 *	58.31 *	56.66 *	54.75 *	52.61 *	62.54 *
37.5	38.87 *	77.83 *	77.40 *	76.42 *	75.14 *	73.54 *	71.61 *	69.36 *	66.84 *	79.72 *
33	42.13 *	84.15 *	83.59 *	82.55 *	81.12 *	79.34 *	77.24 *	74.86 *	72.22 *	86.17 *
29	44.38 *	88.50 *	87.68 *	86.30 *	84.51 *	82.41 *	79.96 *	77.12 *	74.07 *	88.06 *
25.5	46.31 *	92.05 *	90.85 *	89.01 *	86.57 *	83.70 *	80.58 *	77.17 *	73.52 *	86.75 *
22.5	47.96 *	95.00 *	93.36 *	91.03 *	87.80 *	83.77 *	79.50 *	75.22 *	70.75 *	82.47 *
19.5	58.18 *	115.26 *	112.91 *	109.52 *	105.03 *	99.26 *	92.90 *	86.39 *	79.83 *	91.40 *
17	57.03 *	113.21 *	110.98 *	107.41 *	102.69 *	96.85 *	90.09 *	82.71 *	75.31 *	84.69 *
15	51.05 *	101.45 *	99.54 *	96.38 *	92.18 *	87.09 *	81.03 *	74.19 *	67.08 *	74.45 *
13	55.46 *	110.24 *	108.13 *	104.85 *	100.53 *	95.13 *	88.70 *	81.41 *	73.54 *	80.96 *
11	59.31 *	117.97 *	115.80 *	112.50 *	108.08 *	102.43 *	95.68 *	88.01 *	79.67 *	87.37 *
9	62.64 *	124.65 *	122.51 *	119.14 *	114.62 *	108.75 *	101.67 *	93.73 *	85.04 *	93.24 *
7	65.43 *	130.19 *	128.05 *	124.68 *	119.99 *	113.87 *	106.64 *	98.50 *	89.53 *	98.38 *
5	67.69 *	134.62 *	132.43 *	129.00 *	124.09 *	117.88 *	110.62 *	102.31 *	93.11 *	102.52 *
3	69.23 *	137.69 *	135.60 *	132.15 *	127.21 *	120.98 *	113.59 *	105.16 *	95.80 *	105.55 *
1	69.92 *	139.28 *	137.58 *	134.24 *	129.21 *	122.83 *	115.33 *	106.89 *	97.49 *	107.40 *
0	35.03 *	69.89 *	69.16 *	67.50 *	64.90 *	61.65 *	57.87 *	53.69 *	49.02 *	54.07 *
-1	35.03 *	69.89 *	69.16 *	67.50 *	64.90 *	61.65 *	57.87 *	53.69 *	49.02 *	54.07 *
	69.92 *	139.28 *	137.58 *	134.24 *	129.21 *	122.83 *	115.33 *	106.89 *	97.49 *	107.40 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	69.23 *	137.69 *	135.60 *	132.15 *	127.21 *	120.98 *	113.59 *	105.16 *	95.80 *	105.55 *
-5	67.69 *	134.62 *	132.43 *	129.00 *	124.09 *	117.88 *	110.62 *	102.31 *	93.11 *	102.52 *
-7	65.43 *	130.19 *	128.05 *	124.68 *	119.99 *	113.87 *	106.64 *	98.50 *	89.53 *	98.38 *
-9	62.64 *	124.65 *	122.51 *	119.14 *	114.62 *	108.75 *	101.67 *	93.73 *	85.04 *	93.24 *
-11	59.31 *	117.97 *	115.80 *	112.50 *	108.08 *	102.43 *	95.68 *	88.01 *	79.67 *	87.37 *
-13	55.46 *	110.24 *	108.13 *	104.85 *	100.53 *	95.13 *	88.70 *	81.41 *	73.54 *	80.96 *
-15	51.05 *	101.45 *	99.54 *	96.38 *	92.18 *	87.09 *	81.03 *	74.19 *	67.08 *	74.45 *
-17	57.03 *	113.21 *	110.98 *	107.41 *	102.69 *	96.85 *	90.09 *	82.71 *	75.31 *	84.69 *
-19.5	58.18 *	115.26 *	112.91 *	109.52 *	105.03 *	99.26 *	92.90 *	86.39 *	79.83 *	91.40 *
-22.5	47.96 *	95.00 *	93.36 *	91.03 *	87.80 *	83.77 *	79.50 *	75.22 *	70.75 *	82.47 *
-25.5	46.31 *	92.05 *	90.85 *	89.01 *	86.57 *	83.70 *	80.58 *	77.17 *	73.52 *	86.75 *
-29	44.38 *	88.50 *	87.68 *	86.30 *	84.51 *	82.41 *	79.96 *	77.12 *	74.07 *	88.06 *
-33	42.13 *	84.15 *	83.59 *	82.55 *	81.12 *	79.34 *	77.24 *	74.86 *	72.22 *	86.17 *
-37.5	38.87 *	77.83 *	77.40 *	76.42 *	75.14 *	73.54 *	71.61 *	69.36 *	66.84 *	79.72 *
-42.5	30.95 *	62.00 *	61.64 *	60.75 *	59.67 *	58.31 *	56.66 *	54.75 *	52.61 *	62.54 *
-47.5	31.84 *	63.68 *	63.21 *	62.26 *	61.13 *	59.69 *	57.97 *	55.98 *	53.75 *	63.71 *
-55	20.34	40.62	40.26	39.65	38.95	38.06	36.99	35.73	34.32	40.67
-65	6.42	12.81	12.73	12.58	12.39	12.17	11.90	11.58	11.22	13.45
-75	1.93	3.86	3.85	3.82	3.77	3.73	3.66	3.58	3.49	4.22
-85	0.13	0.25	0.26	0.26	0.26	0.25	0.25	0.24	0.23	0.28
-90										
Total	1924.5	3830.42	3775.08	3683.96	3559.71	3403.4	3220.87	3017.16	2796.88	3176.14

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.33	0.31	0.34	0.35	0.35	0.34	0.27	0.29	0.22	0.09
85	4.83	4.55	4.93	5.08	5.01	4.68	3.76	4.06	2.99	1.14
75	15.20	14.14	15.14	15.49	15.08	13.90	11.02	11.73	8.48	3.09
65	45.21	40.99	42.17	40.62	36.42	30.52	22.65	23.25	16.25	5.76
55	70.89	64.27	66.05	63.41	56.50	45.98	31.38	28.82	18.53	6.37

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LUMENS TABULATION - (Cont.)

47.5	69.93 *	63.85 *	66.34 *	64.66 *	58.64	48.51	32.83	27.85	16.01	5.30
42.5	89.53 *	82.13 *	85.72 *	84.19 *	77.01 *	64.62	44.94	37.81	19.98	6.17
37.5	96.92 *	89.27 *	93.73 *	92.51 *	85.14 *	72.18 *	50.94	43.56	22.35	6.28
33	98.69 *	90.76 *	95.65 *	95.04 *	87.89 *	74.98 *	53.36 *	46.33	23.63	6.16
29	96.49 *	88.17 *	92.48 *	92.08 *	85.78 *	73.57 *	52.66 *	46.31	23.58	5.82
25.5	90.81 *	82.36 *	85.80 *	85.00 *	79.54 *	68.66 *	49.31 *	43.80	22.28	5.29
22.5	99.09 *	88.92 *	91.95 *	90.46 *	84.53 *	73.34 *	52.90 *	47.31	24.02	5.55
19.5	89.86 *	79.30 *	81.19 *	79.36 *	73.88 *	64.23 *	46.58 *	41.85 *	21.24	4.82
17	77.47 *	67.05 *	67.86 *	65.96 *	61.17 *	53.20 *	38.73 *	34.88 *	17.70	3.97
15	82.89 *	70.45 *	70.41 *	67.97 *	62.82 *	54.65 *	39.87 *	35.96 *	18.26	4.05
13	88.19 *	73.64 *	72.73 *	69.78 *	64.28 *	55.92 *	40.86 *	36.90 *	18.74	4.12
11	93.41 *	76.84 *	74.89 *	71.36 *	65.56 *	57.00 *	41.69 *	37.71 *	19.16	4.19
9	98.30 *	79.95 *	76.92 *	72.74 *	66.64 *	57.89 *	42.37 *	38.36 *	19.49	4.24
7	102.27 *	82.54 *	78.70 *	73.93 *	67.49 *	58.58 *	42.90 *	38.88 *	19.76	4.28
5	105.21 *	84.55 *	80.11 *	74.84 *	68.11 *	59.12 *	43.36 *	39.34 *	20.01	4.31
3	107.10 *	85.90 *	81.05 *	75.49 *	68.52 *	59.41 *	43.57 *	39.57 *	20.13	4.32
1	53.97 *	43.25 *	40.75 *	37.91 *	34.36 *	29.72 *	21.77 *	19.78 *	10.07	2.16
0	53.97 *	43.25 *	40.75 *	37.91 *	34.36 *	29.72 *	21.77 *	19.78 *	10.07	2.16
-1	107.10 *	85.90 *	81.05 *	75.49 *	68.52 *	59.41 *	43.57 *	39.57 *	20.13	4.32
-3	105.21 *	84.55 *	80.11 *	74.84 *	68.11 *	59.12 *	43.36 *	39.34 *	20.01	4.31
-5	102.27 *	82.54 *	78.70 *	73.93 *	67.49 *	58.58 *	42.90 *	38.88 *	19.76	4.28
-7	98.30 *	79.95 *	76.92 *	72.74 *	66.64 *	57.89 *	42.37 *	38.36 *	19.49	4.24
-9	93.41 *	76.84 *	74.89 *	71.36 *	65.56 *	57.00 *	41.69 *	37.71 *	19.16	4.19
-11	88.19 *	73.64 *	72.73 *	69.78 *	64.28 *	55.92 *	40.86 *	36.90 *	18.74	4.12
-13	82.89 *	70.45 *	70.41 *	67.97 *	62.82 *	54.65 *	39.87 *	35.96 *	18.26	4.05
-15	77.47 *	67.05 *	67.86 *	65.96 *	61.17 *	53.20 *	38.73 *	34.88 *	17.70	3.97
-17	89.86 *	79.30 *	81.19 *	79.36 *	73.88 *	64.23 *	46.58 *	41.85 *	21.24	4.82
-19.5	99.09 *	88.92 *	91.95 *	90.46 *	84.53 *	73.34 *	52.90 *	47.31	24.02	5.55

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	90.81 *	82.36 *	85.80 *	85.00 *	79.54 *	68.66 *	49.31 *	43.80	22.28	5.29
-25.5	96.49 *	88.17 *	92.48 *	92.08 *	85.78 *	73.57 *	52.66 *	46.31	23.58	5.82
-29	98.69 *	90.76 *	95.65 *	95.04 *	87.89 *	74.98 *	53.36 *	46.33	23.63	6.16
-33	96.92 *	89.27 *	93.73 *	92.51 *	85.14 *	72.18 *	50.94	43.56	22.35	6.28
-37.5	89.53 *	82.13 *	85.72 *	84.19 *	77.01 *	64.62	44.94	37.81	19.98	6.17
-42.5	69.93 *	63.85 *	66.34 *	64.66 *	58.64	48.51	32.83	27.85	16.01	5.30
-47.5	70.89	64.27	66.05	63.41	56.50	45.98	31.38	28.82	18.53	6.37
-55	45.21	40.99	42.17	40.62	36.42	30.52	22.65	23.25	16.25	5.76
-65	15.20	14.14	15.14	15.49	15.08	13.90	11.02	11.73	8.48	3.09
-75	4.83	4.55	4.93	5.08	5.01	4.68	3.76	4.06	2.99	1.14
-85	0.33	0.31	0.34	0.35	0.35	0.34	0.27	0.29	0.22	0.09
-90										
Total	3353.2	2906.38	2929.83	2836.45	2609.42	2242.00	1615.48	1448.71	765.76	194.97

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.02	0.00		5.33
85				
	0.24	0.01		77.19
75				
	0.58	0.01		241.12
65				
	1.03	0.02		670.50
55				
	1.11	0.02		1026.56
47.5				
	0.91	0.02		1014.72
42.5				
	1.05	0.02		1299.91
37.5				
	1.05	0.02		1417.32
33				
	1.02	0.02		1466.51
29				
	0.95	0.02		1464.43
25.5				
	0.86	0.01		1420.58
22.5				
	0.89	0.02		1609.65
19.5				
	0.76	0.01		1504.05
17				
	0.62	0.01		1313.07

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

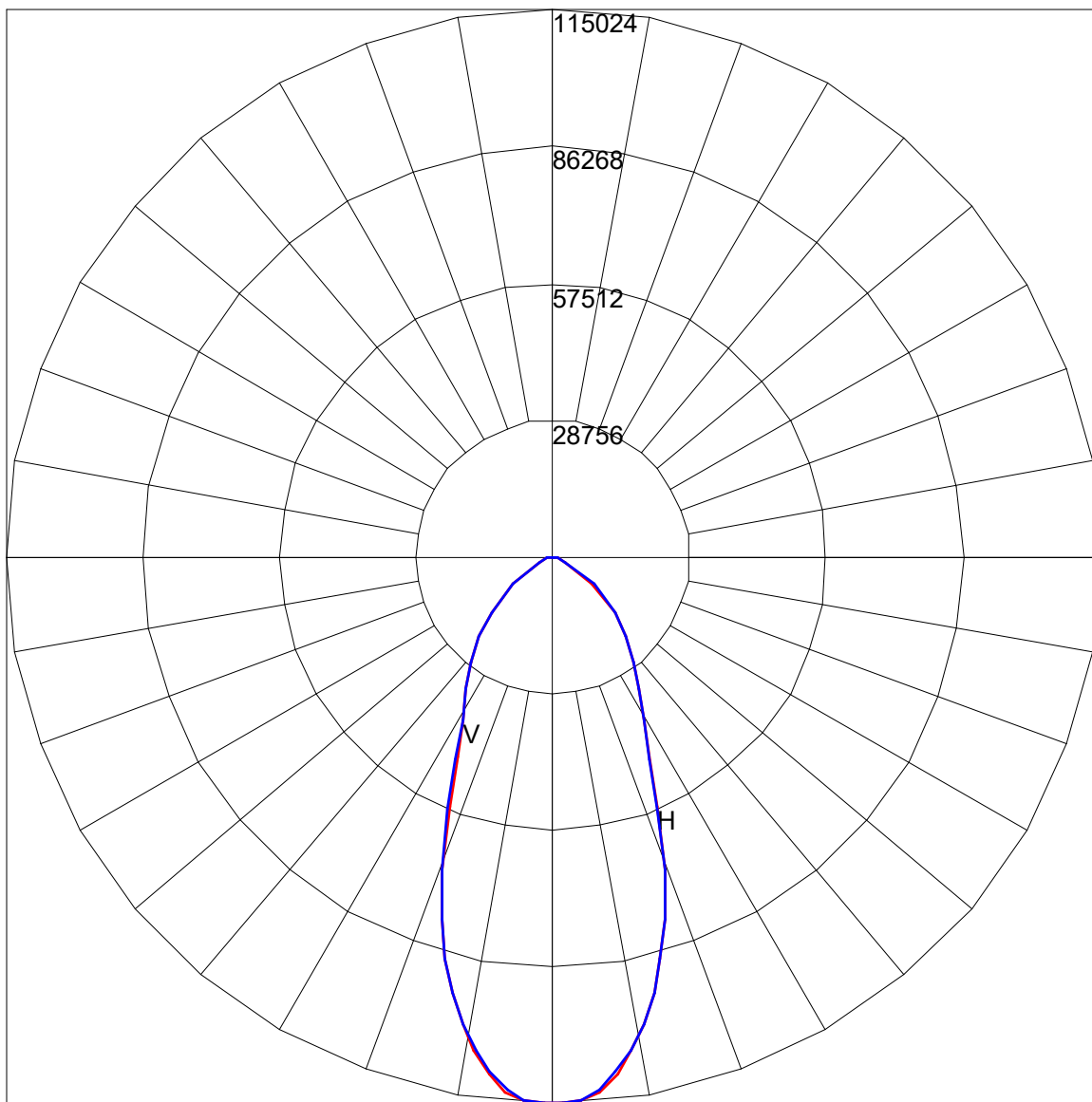
15			
	0.63	0.01	1406.91
13			
	0.64	0.01	1492.65
11			
	0.65	0.01	1568.45
9			
	0.66	0.01	1632.83
7			
	0.66	0.01	1684.28
5			
	0.66	0.01	1722.6
3			
	0.66	0.01	1745.92
1			
	0.33	0.01	876.86
0			
	0.33	0.01	876.86
-1			
	0.66	0.01	1745.92
-3			
	0.66	0.01	1722.6
-5			
	0.66	0.01	1684.28
-7			
	0.66	0.01	1632.83
-9			
	0.65	0.01	1568.45
-11			
	0.64	0.01	1492.65
-13			
	0.63	0.01	1406.91
-15			
	0.62	0.01	1313.07
-17			
	0.76	0.01	1504.05
-19.5			
	0.89	0.02	1609.65
-22.5			
	0.86	0.01	1420.58
-25.5			
	0.95	0.02	1464.43
-29			
	1.02	0.02	1466.51
-33			
	1.05	0.02	1417.32
-37.5			
	1.05	0.02	1299.91
-42.5			
	0.91	0.02	1014.72
-47.5			
	1.11	0.02	1026.56
-55			
	1.03	0.02	670.50
-65			
	0.58	0.01	241.12

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

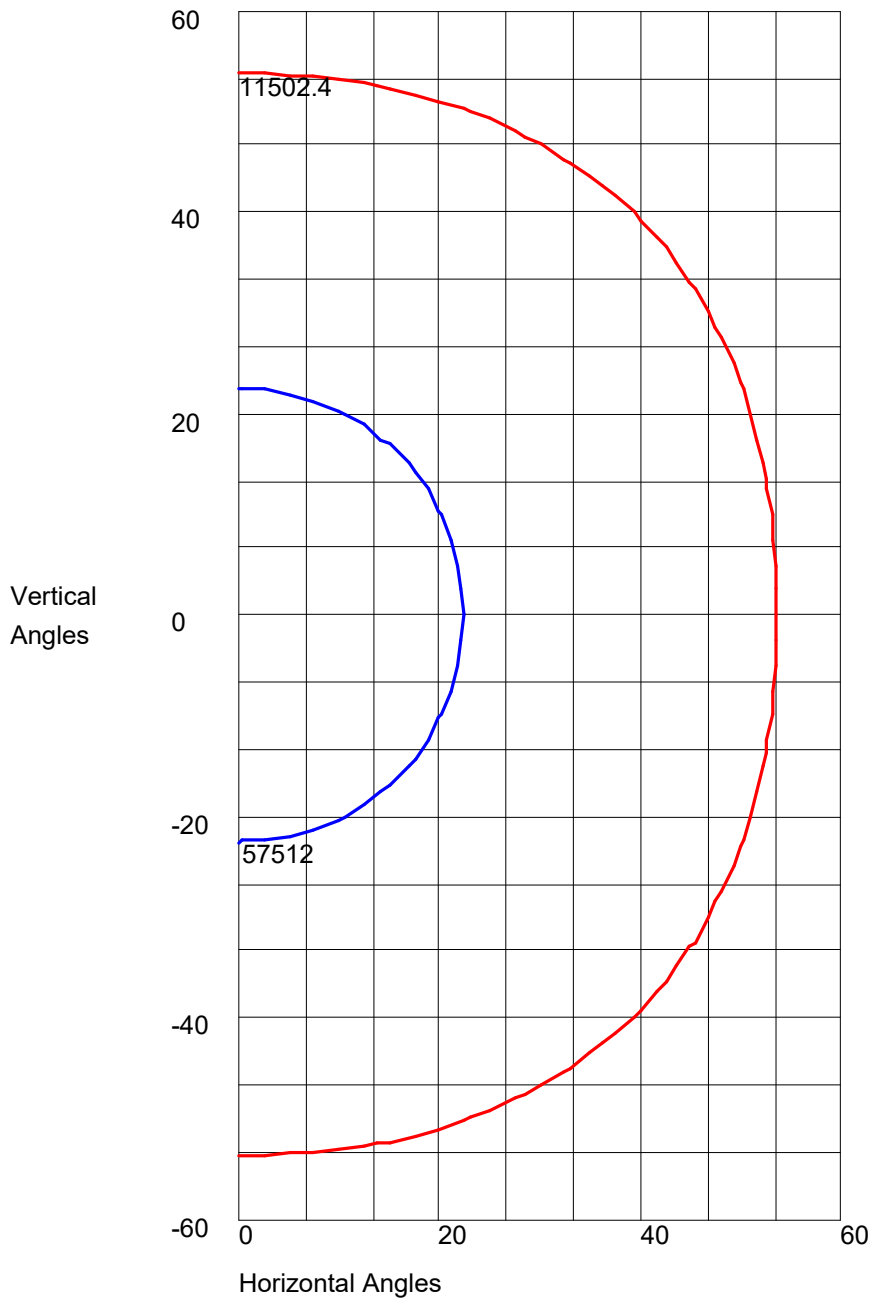
-75	0.24	0.01	77.19
-85	0.02	0.00	5.33
-90			
Total	31.99	0.56	53322.85

AXIAL CANDELA DISPLAY



Maximum Candela = 115024 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 115024 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 57512
10% Maximum Candela = 11502.4