



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-40-80-FGS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-12614

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 03/30/21

[TESTDATE] 03/17/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] PFL-LED-16L-PC-WF-40-80-FGS

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Outdoor

[SEARCH\_COLORTEMP] 4000

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

### CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	13904
Maximum Candela Angle	-3H 0V
Horizontal Beam Angle (50%)	64.7
Vertical Beam Angle (50%)	62.1
Horizontal Field Angle (10%)	83.8
Vertical Field Angle (10%)	83.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	10737
Beam Efficiency	N.A.
Field Lumens	13251
Field Efficiency	N.A.
Spill Lumens	582
Luminaire Lumens	13833
Total Efficiency	N.A.
Total Luminaire Watts	142
Ballast Factor	1.00



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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	4	85	7
75	15	75	14
65	31	65	27
55	206	55	78
47.5	405	47.5	416
42.5	1062	42.5	1150
37.5	3782	37.5	3092
33	6648	33	5762
29	8504	29	8129
25.5	9931	25.5	10031
22.5	10822	22.5	11439
19.5	11805	19.5	12640
17	12409	17	12953
15	12911	15	13159
13	13414	13	13320
11	13644	11	13452
9	13762	9	13558
7	13845	7	13635
5	13893	5	13685
3	13904	3	13702
1	13821	1	13740
0	13763	0	13763
-1	13821	-1	13740
-3	13904	-3	13702
-5	13893	-5	13685
-7	13845	-7	13635
-9	13762	-9	13558
-11	13644	-11	13452
-13	13414	-13	13320
-15	12911	-15	13159
-17	12409	-17	12953
-19.5	11805	-19.5	12640
-22.5	10822	-22.5	11439
-25.5	9931	-25.5	10031
-29	8504	-29	8129
-33	6648	-33	5762
-37.5	3782	-37.5	3092
-42.5	1062	-42.5	1150
-47.5	405	-47.5	416
-55	206	-55	78
-65	31	-65	27
-75	15	-75	14
-85	4	-85	7
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 13904

Beam Edge = 6952 Cd (50% of Max.)

Field Edge = 1390.4 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	0	1	3	4	5	5	5	6	6
<b>75.0</b>	0	1	3	5	7	8	9	9	10	11
<b>65.0</b>	0	2	5	8	10	12	14	15	17	18
<b>55.0</b>	0	2	7	12	15	23	30	38	45	49
<b>47.5</b>	0	3	9	15	24	59	82	109	132	162
<b>42.5</b>	0	3	10	17	39	89	120	157	199	251
<b>37.5</b>	0	3	11	19	60	124	162	221	305	469
<b>33.0</b>	0	3	12	21	83	162	221	332	554	1031
<b>29.0</b>	0	3	12	22	105	202	289	508	1065	2214 *
<b>25.5</b>	0	4	13	23	127	238	369	772	1911 *	3520 *
<b>22.5</b>	0	4	14	26	144	273	445	1082	2780 *	4897 *
<b>19.5</b>	0	4	14	28	159	303	544	1563 *	3727 *	6043 *
<b>17.0</b>	0	4	14	29	170	328	614	1954 *	4482 *	6768 *
<b>15.0</b>	0	4	14	30	178	347	710	2220 *	4990 *	7264 *
<b>13.0</b>	0	4	14	31	185	363	805	2577 *	5435 *	7625 *
<b>11.0</b>	0	4	15	31	191	376	883	2900 *	5776 *	7952 *
<b>9.0</b>	0	4	15	32	196	386	946	3187 *	6044 *	8239 *
<b>7.0</b>	0	4	15	32	200	394	992	3418 *	6272 *	8384 *
<b>5.0</b>	0	4	15	32	203	399	1024	3591 *	6449 *	8444 *
<b>3.0</b>	0	4	15	32	206	406	1065	3709 *	6572 *	8475 *
<b>1.0</b>	0	4	15	31	206	405	1063	3780 *	6640 *	8506 *
<b>0.0</b>	0	4	15	31	206	405	1062	3782 *	6648 *	8504 *
<b>-1.0</b>	0	4	15	31	206	405	1063	3780 *	6640 *	8506 *
<b>-3.0</b>	0	4	15	32	206	406	1065	3709 *	6572 *	8475 *
<b>-5.0</b>	0	4	15	32	203	399	1024	3591 *	6449 *	8444 *
<b>-7.0</b>	0	4	15	32	200	394	992	3418 *	6272 *	8384 *
<b>-9.0</b>	0	4	15	32	196	386	946	3187 *	6044 *	8239 *
<b>-11.0</b>	0	4	15	31	191	376	883	2900 *	5776 *	7952 *
<b>-13.0</b>	0	4	14	31	185	363	805	2577 *	5435 *	7625 *
<b>-15.0</b>	0	4	14	30	178	347	710	2220 *	4990 *	7264 *
<b>-17.0</b>	0	4	14	29	170	328	614	1954 *	4482 *	6768 *
<b>-19.5</b>	0	4	14	28	159	303	544	1563 *	3727 *	6043 *
<b>-22.5</b>	0	4	14	26	144	273	445	1082	2780 *	4897 *
<b>-25.5</b>	0	4	13	23	127	238	369	772	1911 *	3520 *
<b>-29.0</b>	0	3	12	22	105	202	289	508	1065	2214 *
<b>-33.0</b>	0	3	12	21	83	162	221	332	554	1031
<b>-37.5</b>	0	3	11	19	60	124	162	221	305	469
<b>-42.5</b>	0	3	10	17	39	89	120	157	199	251
<b>-47.5</b>	0	3	9	15	24	59	82	109	132	162
<b>-55.0</b>	0	2	7	12	15	23	30	38	45	49
<b>-65.0</b>	0	2	5	8	10	12	14	15	17	18
<b>-75.0</b>	0	1	3	5	7	8	9	9	10	11
<b>-85.0</b>	0	0	1	3	4	5	5	5	6	6
<b>-90.0</b>	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>-25.5</b>	<b>-22.5</b>	<b>-19.5</b>	<b>-17.0</b>	<b>-15.0</b>	<b>-13.0</b>	<b>-11.0</b>	<b>-9.0</b>	<b>-7.0</b>	<b>-5.0</b>
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	7	7	7	7	7	7	7	7	7	7
<b>75.0</b>	12	12	13	13	14	14	14	14	14	14
<b>65.0</b>	19	21	22	23	24	25	26	26	26	27
<b>55.0</b>	58	61	65	71	74	76	79	80	81	82
<b>47.5</b>	190	217	249	278	305	332	358	375	390	402
<b>42.5</b>	319	399	515	609	712	817	910	988	1051	1101
<b>37.5</b>	706	970	1395 *	1730 *	1953 *	2245 *	2483 *	2672 *	2843 *	2970 *
<b>33.0</b>	1788 *	2512 *	3268 *	3922 *	4384 *	4802 *	5170 *	5427 *	5578 *	5680 *
<b>29.0</b>	3357 *	4546 *	5598 *	6304 *	6849 *	7257 *	7576 *	7896 *	8134 *	8205 *
<b>25.5</b>	5195 *	6409 *	7470 *	8246 *	8735 *	9207 *	9654 *	9824 *	9958 *	10077 *
<b>22.5</b>	6593 *	7870 *	9011 *	9684 *	10196 *	10684 *	11067 *	11326 *	11474 *	11531 *
<b>19.5</b>	7776 *	9027 *	10090 *	10770 *	11288 *	11777 *	12152 *	12356 *	12430 *	12545 *
<b>17.0</b>	8472 *	9624 *	10562 *	11236 *	11712 *	12203 *	12572 *	12708 *	12806 *	12878 *
<b>15.0</b>	8838 *	9931 *	10859 *	11554 *	11991 *	12480 *	12787 *	12939 *	13019 *	13084 *
<b>13.0</b>	9104 *	10186 *	11141 *	11761 *	12226 *	12752 *	13017 *	13122 *	13204 *	13257 *
<b>11.0</b>	9326 *	10422 *	11320 *	11928 *	12464 *	12956 *	13185 *	13285 *	13355 *	13405 *
<b>9.0</b>	9509 *	10591 *	11474 *	12121 *	12606 *	13119 *	13332 *	13425 *	13480 *	13522 *
<b>7.0</b>	9686 *	10667 *	11666 *	12208 *	12723 *	13309 *	13451 *	13543 *	13597 *	13610 *
<b>5.0</b>	9837 *	10720 *	11839 *	12277 *	12921 *	13360 *	13544 *	13642 *	13697 *	13703 *
<b>3.0</b>	9907 *	10777 *	11830 *	12363 *	12992 *	13395 *	13606 *	13711 *	13780 *	13797 *
<b>1.0</b>	9935 *	10821 *	11806 *	12403 *	12951 *	13409 *	13632 *	13746 *	13825 *	13872 *
<b>0.0</b>	9931 *	10822 *	11805 *	12409 *	12911 *	13414 *	13644 *	13762 *	13845 *	13893 *
<b>-1.0</b>	9935 *	10821 *	11806 *	12403 *	12951 *	13409 *	13632 *	13746 *	13825 *	13872 *
<b>-3.0</b>	9907 *	10777 *	11830 *	12363 *	12992 *	13395 *	13606 *	13711 *	13780 *	13797 *
<b>-5.0</b>	9837 *	10720 *	11839 *	12277 *	12921 *	13360 *	13544 *	13642 *	13697 *	13703 *
<b>-7.0</b>	9686 *	10667 *	11666 *	12208 *	12723 *	13309 *	13451 *	13543 *	13597 *	13610 *
<b>-9.0</b>	9509 *	10591 *	11474 *	12121 *	12606 *	13119 *	13332 *	13425 *	13480 *	13522 *
<b>-11.0</b>	9326 *	10422 *	11320 *	11928 *	12464 *	12956 *	13185 *	13285 *	13355 *	13405 *
<b>-13.0</b>	9104 *	10186 *	11141 *	11761 *	12226 *	12752 *	13017 *	13122 *	13204 *	13257 *
<b>-15.0</b>	8838 *	9931 *	10859 *	11554 *	11991 *	12480 *	12787 *	12939 *	13019 *	13084 *
<b>-17.0</b>	8472 *	9624 *	10562 *	11236 *	11712 *	12203 *	12572 *	12708 *	12806 *	12878 *
<b>-19.5</b>	7776 *	9027 *	10090 *	10770 *	11288 *	11777 *	12152 *	12356 *	12430 *	12545 *
<b>-22.5</b>	6593 *	7870 *	9011 *	9684 *	10196 *	10684 *	11067 *	11326 *	11474 *	11531 *
<b>-25.5</b>	5195 *	6409 *	7470 *	8246 *	8735 *	9207 *	9654 *	9824 *	9958 *	10077 *
<b>-29.0</b>	3357 *	4546 *	5598 *	6304 *	6849 *	7257 *	7576 *	7896 *	8134 *	8205 *
<b>-33.0</b>	1788 *	2512 *	3268 *	3922 *	4384 *	4802 *	5170 *	5427 *	5578 *	5680 *
<b>-37.5</b>	706	970	1395 *	1730 *	1953 *	2245 *	2483 *	2672 *	2843 *	2970 *
<b>-42.5</b>	319	399	515	609	712	817	910	988	1051	1101
<b>-47.5</b>	190	217	249	278	305	332	358	375	390	402
<b>-55.0</b>	58	61	65	71	74	76	79	80	81	82
<b>-65.0</b>	19	21	22	23	24	25	26	26	26	27
<b>-75.0</b>	12	12	13	13	14	14	14	14	14	14
<b>-85.0</b>	7	7	7	7	7	7	7	7	7	7
<b>-90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>-3.0</b>	<b>-1.0</b>	<b>0.0</b>	<b>1.0</b>	<b>3.0</b>	<b>5.0</b>	<b>7.0</b>	<b>9.0</b>	<b>11.0</b>	<b>13.0</b>
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	7	7	7	7	7	7	7	7	7	7
<b>75.0</b>	14	14	14	14	14	14	14	14	14	14
<b>65.0</b>	27	27	27	27	27	27	26	26	26	25

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**CANDELA TABULATION - (Cont.)**

55.0	82	79	78	79	82	82	81	80	79	76
47.5	415	416	416	416	415	402	390	375	358	332
42.5	1152	1151	1150	1151	1152	1101	1051	988	910	817
37.5	3051 *	3095 *	3092 *	3095 *	3051 *	2970 *	2843 *	2672 *	2483 *	2245 *
33.0	5733 *	5767 *	5762 *	5767 *	5733 *	5680 *	5578 *	5427 *	5170 *	4802 *
29.0	8213 *	8170 *	8129 *	8170 *	8213 *	8205 *	8134 *	7896 *	7576 *	7257 *
25.5	10120 *	10081 *	10031 *	10081 *	10120 *	10077 *	9958 *	9824 *	9654 *	9207 *
22.5	11515 *	11475 *	11439 *	11475 *	11515 *	11531 *	11474 *	11326 *	11067 *	10684 *
19.5	12613 *	12637 *	12640 *	12637 *	12613 *	12545 *	12430 *	12356 *	12152 *	11777 *
17.0	12926 *	12950 *	12953 *	12950 *	12926 *	12878 *	12806 *	12708 *	12572 *	12203 *
15.0	13131 *	13157 *	13159 *	13157 *	13131 *	13084 *	13019 *	12939 *	12787 *	12480 *
13.0	13293 *	13314 *	13320 *	13314 *	13293 *	13257 *	13204 *	13122 *	13017 *	12752 *
11.0	13426 *	13445 *	13452 *	13445 *	13426 *	13405 *	13355 *	13285 *	13185 *	12956 *
9.0	13539 *	13549 *	13558 *	13549 *	13539 *	13522 *	13480 *	13425 *	13332 *	13119 *
7.0	13624 *	13626 *	13635 *	13626 *	13624 *	13610 *	13597 *	13543 *	13451 *	13309 *
5.0	13680 *	13676 *	13685 *	13676 *	13680 *	13703 *	13697 *	13642 *	13544 *	13360 *
3.0	13753 *	13692 *	13702 *	13692 *	13753 *	13797 *	13780 *	13711 *	13606 *	13395 *
1.0	13870 *	13764 *	13740 *	13764 *	13870 *	13872 *	13825 *	13746 *	13632 *	13409 *
0.0	13904 *	13821 *	13763 *	13821 *	13904 *	13893 *	13845 *	13762 *	13644 *	13414 *
-1.0	13870 *	13764 *	13740 *	13764 *	13870 *	13872 *	13825 *	13746 *	13632 *	13409 *
-3.0	13753 *	13692 *	13702 *	13692 *	13753 *	13797 *	13780 *	13711 *	13606 *	13395 *
-5.0	13680 *	13676 *	13685 *	13676 *	13680 *	13703 *	13697 *	13642 *	13544 *	13360 *
-7.0	13624 *	13626 *	13635 *	13626 *	13624 *	13610 *	13597 *	13543 *	13451 *	13309 *
-9.0	13539 *	13549 *	13558 *	13549 *	13539 *	13522 *	13480 *	13425 *	13332 *	13119 *
-11.0	13426 *	13445 *	13452 *	13445 *	13426 *	13405 *	13355 *	13285 *	13185 *	12956 *
-13.0	13293 *	13314 *	13320 *	13314 *	13293 *	13257 *	13204 *	13122 *	13017 *	12752 *
-15.0	13131 *	13157 *	13159 *	13157 *	13131 *	13084 *	13019 *	12939 *	12787 *	12480 *
-17.0	12926 *	12950 *	12953 *	12950 *	12926 *	12878 *	12806 *	12708 *	12572 *	12203 *
-19.5	12613 *	12637 *	12640 *	12637 *	12613 *	12545 *	12430 *	12356 *	12152 *	11777 *
-22.5	11515 *	11475 *	11439 *	11475 *	11515 *	11531 *	11474 *	11326 *	11067 *	10684 *
-25.5	10120 *	10081 *	10031 *	10081 *	10120 *	10077 *	9958 *	9824 *	9654 *	9207 *
-29.0	8213 *	8170 *	8129 *	8170 *	8213 *	8205 *	8134 *	7896 *	7576 *	7257 *
-33.0	5733 *	5767 *	5762 *	5767 *	5733 *	5680 *	5578 *	5427 *	5170 *	4802 *
-37.5	3051 *	3095 *	3092 *	3095 *	3051 *	2970 *	2843 *	2672 *	2483 *	2245 *
-42.5	1152	1151	1150	1151	1152	1101	1051	988	910	817
-47.5	415	416	416	416	415	402	390	375	358	332
-55.0	82	79	78	79	82	82	81	80	79	76
-65.0	27	27	27	27	27	27	26	26	26	25
-75.0	14	14	14	14	14	14	14	14	14	14
-85.0	7	7	7	7	7	7	7	7	7	7
-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	7	7	7	7	7	6	6	5	5	5
75.0	14	13	13	12	12	11	10	9	9	8
65.0	24	23	22	21	19	18	17	15	14	12
55.0	74	71	65	61	58	49	45	38	30	23
47.5	305	278	249	217	190	162	132	109	82	59
42.5	712	609	515	399	319	251	199	157	120	89
37.5	1953 *	1730 *	1395 *	970	706	469	305	221	162	124
33.0	4384 *	3922 *	3268 *	2512 *	1788 *	1031	554	332	221	162
29.0	6849 *	6304 *	5598 *	4546 *	3357 *	2214 *	1065	508	289	202
25.5	8735 *	8246 *	7470 *	6409 *	5195 *	3520 *	1911 *	772	369	238

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**CANDELA TABULATION - (Cont.)**

22.5	10196 *	9684 *	9011 *	7870 *	6593 *	4897 *	2780 *	1082	445	273
19.5	11288 *	10770 *	10090 *	9027 *	7776 *	6043 *	3727 *	1563 *	544	303
17.0	11712 *	11236 *	10562 *	9624 *	8472 *	6768 *	4482 *	1954 *	614	328
15.0	11991 *	11554 *	10859 *	9931 *	8838 *	7264 *	4990 *	2220 *	710	347
13.0	12226 *	11761 *	11141 *	10186 *	9104 *	7625 *	5435 *	2577 *	805	363
11.0	12464 *	11928 *	11320 *	10422 *	9326 *	7952 *	5776 *	2900 *	883	376
9.0	12606 *	12121 *	11474 *	10591 *	9509 *	8239 *	6044 *	3187 *	946	386
7.0	12723 *	12208 *	11666 *	10667 *	9686 *	8384 *	6272 *	3418 *	992	394
5.0	12921 *	12277 *	11839 *	10720 *	9837 *	8444 *	6449 *	3591 *	1024	399
3.0	12992 *	12363 *	11830 *	10777 *	9907 *	8475 *	6572 *	3709 *	1065	406
1.0	12951 *	12403 *	11806 *	10821 *	9935 *	8506 *	6640 *	3780 *	1063	405
0.0	12911 *	12409 *	11805 *	10822 *	9931 *	8504 *	6648 *	3782 *	1062	405
-1.0	12951 *	12403 *	11806 *	10821 *	9935 *	8506 *	6640 *	3780 *	1063	405
-3.0	12992 *	12363 *	11830 *	10777 *	9907 *	8475 *	6572 *	3709 *	1065	406
-5.0	12921 *	12277 *	11839 *	10720 *	9837 *	8444 *	6449 *	3591 *	1024	399
-7.0	12723 *	12208 *	11666 *	10667 *	9686 *	8384 *	6272 *	3418 *	992	394
-9.0	12606 *	12121 *	11474 *	10591 *	9509 *	8239 *	6044 *	3187 *	946	386
-11.0	12464 *	11928 *	11320 *	10422 *	9326 *	7952 *	5776 *	2900 *	883	376
-13.0	12226 *	11761 *	11141 *	10186 *	9104 *	7625 *	5435 *	2577 *	805	363
-15.0	11991 *	11554 *	10859 *	9931 *	8838 *	7264 *	4990 *	2220 *	710	347
-17.0	11712 *	11236 *	10562 *	9624 *	8472 *	6768 *	4482 *	1954 *	614	328
-19.5	11288 *	10770 *	10090 *	9027 *	7776 *	6043 *	3727 *	1563 *	544	303
-22.5	10196 *	9684 *	9011 *	7870 *	6593 *	4897 *	2780 *	1082	445	273
-25.5	8735 *	8246 *	7470 *	6409 *	5195 *	3520 *	1911 *	772	369	238
-29.0	6849 *	6304 *	5598 *	4546 *	3357 *	2214 *	1065	508	289	202
-33.0	4384 *	3922 *	3268 *	2512 *	1788 *	1031	554	332	221	162
-37.5	1953 *	1730 *	1395 *	970	706	469	305	221	162	124
-42.5	712	609	515	399	319	251	199	157	120	89
-47.5	305	278	249	217	190	162	132	109	82	59
-55.0	74	71	65	61	58	49	45	38	30	23
-65.0	24	23	22	21	19	18	17	15	14	12
-75.0	14	13	13	12	12	11	10	9	9	8
-85.0	7	7	7	7	7	6	6	5	5	5
-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	4	3	1	0	0
75.0	7	5	3	1	0
65.0	10	8	5	2	0
55.0	15	12	7	2	0
47.5	24	15	9	3	0
42.5	39	17	10	3	0
37.5	60	19	11	3	0
33.0	83	21	12	3	0
29.0	105	22	12	3	0
25.5	127	23	13	4	0
22.5	144	26	14	4	0
19.5	159	28	14	4	0
17.0	170	29	14	4	0
15.0	178	30	14	4	0
13.0	185	31	14	4	0
11.0	191	31	15	4	0
9.0	196	32	15	4	0

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

<b>7.0</b>	200	32	15	4	0
<b>5.0</b>	203	32	15	4	0
<b>3.0</b>	206	32	15	4	0
<b>1.0</b>	206	31	15	4	0
<b>0.0</b>	206	31	15	4	0
<b>-1.0</b>	206	31	15	4	0
<b>-3.0</b>	206	32	15	4	0
<b>-5.0</b>	203	32	15	4	0
<b>-7.0</b>	200	32	15	4	0
<b>-9.0</b>	196	32	15	4	0
<b>-11.0</b>	191	31	15	4	0
<b>-13.0</b>	185	31	14	4	0
<b>-15.0</b>	178	30	14	4	0
<b>-17.0</b>	170	29	14	4	0
<b>-19.5</b>	159	28	14	4	0
<b>-22.5</b>	144	26	14	4	0
<b>-25.5</b>	127	23	13	4	0
<b>-29.0</b>	105	22	12	3	0
<b>-33.0</b>	83	21	12	3	0
<b>-37.5</b>	60	19	11	3	0
<b>-42.5</b>	39	17	10	3	0
<b>-47.5</b>	24	15	9	3	0
<b>-55.0</b>	15	12	7	2	0
<b>-65.0</b>	10	8	5	2	0
<b>-75.0</b>	7	5	3	1	0
<b>-85.0</b>	4	3	1	0	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-40-80-FGS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 6916.5

Total Field Lumens (one side of beam only) = 6625.54

\* 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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
75	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07
65	0.06	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.13
55	0.16	0.33	0.33	0.33	0.32	0.32	0.31	0.29	0.28	0.33
47.5	0.56	1.13	1.12	1.08	1.05	1.00	0.94	0.87	0.80	0.90
42.5	1.19	2.39	2.33	2.23	2.11	1.97	1.80	1.60	1.39	1.49
37.5	3.23 *	6.43 *	6.29 *	6.03 *	5.70 *	5.29 *	4.81 *	4.23 *	3.66	3.84
33	6.07 *	12.09 *	11.92 *	11.64 *	11.21 *	10.63 *	9.85 *	8.90 *	7.90 *	8.39 *
29	8.48 *	16.98 *	16.91 *	16.72 *	16.31 *	15.64 *	14.78 *	13.77 *	12.57 *	13.81 *
25.5	9.70 *	19.49 *	19.47 *	19.28 *	18.90 *	18.35 *	17.57 *	16.58 *	15.44 *	17.48 *
22.5	9.83 *	19.72 *	19.71 *	19.56 *	19.27 *	18.84 *	18.15 *	17.21 *	16.19 *	18.66 *
19.5	11.01 *	22.03 *	21.97 *	21.80 *	21.53 *	21.10 *	20.42 *	19.48 *	18.42 *	21.45 *
17	9.74 *	19.45 *	19.36 *	19.18 *	18.97 *	18.67 *	18.14 *	17.36 *	16.47 *	19.28 *
15	7.95 *	15.88 *	15.81 *	15.69 *	15.53 *	15.30 *	14.91 *	14.30 *	13.61 *	15.99 *
13	8.06 *	16.10 *	16.03 *	15.92 *	15.77 *	15.56 *	15.21 *	14.61 *	13.92 *	16.39 *
11	8.15 *	16.28 *	16.22 *	16.12 *	15.98 *	15.78 *	15.47 *	14.90 *	14.17 *	16.69 *
9	8.22 *	16.43 *	16.38 *	16.29 *	16.15 *	15.97 *	15.67 *	15.12 *	14.38 *	16.94 *
7	8.28 *	16.54 *	16.50 *	16.42 *	16.30 *	16.12 *	15.85 *	15.30 *	14.54 *	17.16 *
5	8.32 *	16.62 *	16.60 *	16.54 *	16.43 *	16.25 *	15.99 *	15.46 *	14.68 *	17.35 *
3	8.34 *	16.68 *	16.69 *	16.65 *	16.54 *	16.35 *	16.06 *	15.57 *	14.80 *	17.47 *
1	8.36 *	16.77 *	16.80 *	16.74 *	16.61 *	16.41 *	16.10 *	15.59 *	14.85 *	17.50 *
0	4.19 *	8.43 *	8.44 *	8.40 *	8.32 *	8.22 *	8.06 *	7.79 *	7.42 *	8.75 *
-1	4.19 *	8.43 *	8.44 *	8.40 *	8.32 *	8.22 *	8.06 *	7.79 *	7.42 *	8.75 *
	8.36 *	16.77 *	16.80 *	16.74 *	16.61 *	16.41 *	16.10 *	15.59 *	14.85 *	17.50 *

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

<b>-3</b>	8.34 *	16.68 *	16.69 *	16.65 *	16.54 *	16.35 *	16.06 *	15.57 *	14.80 *	17.47 *
<b>-5</b>	8.32 *	16.62 *	16.60 *	16.54 *	16.43 *	16.25 *	15.99 *	15.46 *	14.68 *	17.35 *
<b>-7</b>	8.28 *	16.54 *	16.50 *	16.42 *	16.30 *	16.12 *	15.85 *	15.30 *	14.54 *	17.16 *
<b>-9</b>	8.22 *	16.43 *	16.38 *	16.29 *	16.15 *	15.97 *	15.67 *	15.12 *	14.38 *	16.94 *
<b>-11</b>	8.15 *	16.28 *	16.22 *	16.12 *	15.98 *	15.78 *	15.47 *	14.90 *	14.17 *	16.69 *
<b>-13</b>	8.06 *	16.10 *	16.03 *	15.92 *	15.77 *	15.56 *	15.21 *	14.61 *	13.92 *	16.39 *
<b>-15</b>	7.95 *	15.88 *	15.81 *	15.69 *	15.53 *	15.30 *	14.91 *	14.30 *	13.61 *	15.99 *
<b>-17</b>	9.74 *	19.45 *	19.36 *	19.18 *	18.97 *	18.67 *	18.14 *	17.36 *	16.47 *	19.28 *
<b>-19.5</b>	11.01 *	22.03 *	21.97 *	21.80 *	21.53 *	21.10 *	20.42 *	19.48 *	18.42 *	21.45 *
<b>-22.5</b>	9.83 *	19.72 *	19.71 *	19.56 *	19.27 *	18.84 *	18.15 *	17.21 *	16.19 *	18.66 *
<b>-25.5</b>	9.70 *	19.49 *	19.47 *	19.28 *	18.90 *	18.35 *	17.57 *	16.58 *	15.44 *	17.48 *
<b>-29</b>	8.48 *	16.98 *	16.91 *	16.72 *	16.31 *	15.64 *	14.78 *	13.77 *	12.57 *	13.81 *
<b>-33</b>	6.07 *	12.09 *	11.92 *	11.64 *	11.21 *	10.63 *	9.85 *	8.90 *	7.90 *	8.39 *
<b>-37.5</b>	3.23 *	6.43 *	6.29 *	6.03 *	5.70 *	5.29 *	4.81 *	4.23 *	3.66	3.84
<b>-42.5</b>	1.19	2.39	2.33	2.23	2.11	1.97	1.80	1.60	1.39	1.49
<b>-47.5</b>	0.56	1.13	1.12	1.08	1.05	1.00	0.94	0.87	0.80	0.90
<b>-55</b>	0.16	0.33	0.33	0.33	0.32	0.32	0.31	0.29	0.28	0.33
<b>-65</b>	0.06	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.13
<b>-75</b>	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07
<b>-85</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>-90</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>Total</b>	259.95	519.91	518.13	513.66	506.38	495.93	480.55	458.21	431.33	500.17

**Vert. Horizontal Angles**

<b>Angles</b>	<b>19.5</b>	<b>22.5</b>	<b>25.5</b>	<b>29</b>	<b>33</b>	<b>37.5</b>	<b>42.5</b>	<b>47.5</b>	<b>55</b>	<b>65</b>
<b>90</b>	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01
<b>85</b>	0.08	0.08	0.09	0.09	0.08	0.08	0.07	0.09	0.07	0.03
<b>75</b>	0.15	0.13	0.14	0.15	0.14	0.14	0.12	0.13	0.11	0.05
<b>65</b>	0.36	0.33	0.34	0.34	0.32	0.28	0.21	0.21	0.17	0.08
<b>55</b>	0.95	0.82	0.82	0.76	0.68	0.57	0.39	0.32	0.19	0.08

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

<b>47.5</b>										
	1.47	1.17	1.09	0.97	0.84	0.68	0.47	0.38	0.18	0.07
<b>42.5</b>	3.50	2.50	2.07	1.60	1.23	0.96	0.67	0.56	0.26	0.07
<b>37.5</b>	7.82 *	5.61 *	4.26	2.77	1.78	1.23	0.81	0.69	0.31	0.07
<b>33</b>	13.58 *	10.19 *	7.95 *	5.08	2.75	1.57	0.94	0.79	0.35	0.07
<b>29</b>	17.93 *	14.25 *	11.85 *	7.96 *	4.17	1.98	1.03	0.84	0.37	0.06
<b>25.5</b>	19.68 *	16.32 *	14.36 *	10.27 *	5.49 *	2.33	1.07	0.84	0.37	0.06
<b>22.5</b>	23.03 *	19.57 *	17.99 *	13.66 *	7.68 *	3.18	1.26	0.94	0.41	0.06
<b>19.5</b>	20.95 *	18.21 *	17.21 *	13.72 *	8.20 *	3.41	1.20	0.86	0.37	0.06
<b>17</b>	17.48 *	15.39 *	14.85 *	12.27 *	7.64 *	3.21	1.08	0.73	0.31	0.05
<b>15</b>	17.96 *	15.88 *	15.56 *	13.22 *	8.52 *	3.68 *	1.20	0.77	0.32	0.05
<b>13</b>	18.37 *	16.29 *	16.11 *	13.99 *	9.34 *	4.18 *	1.31	0.80	0.33	0.05
<b>11</b>	18.68 *	16.63 *	16.60 *	14.62 *	10.02 *	4.62 *	1.39	0.82	0.34	0.05
<b>9</b>	18.94 *	16.88 *	16.97 *	15.11 *	10.59 *	4.98 *	1.46	0.84	0.35	0.05
<b>7</b>	19.15 *	17.07 *	17.22 *	15.43 *	11.04 *	5.26 *	1.51	0.85	0.36	0.05
<b>5</b>	19.26 *	17.21 *	17.37 *	15.63 *	11.37 *	5.48 *	1.56	0.87	0.36	0.05
<b>3</b>	19.29 *	17.30 *	17.45 *	15.76 *	11.58 *	5.61 *	1.58	0.87	0.36	0.05
<b>1</b>	9.65 *	8.66 *	8.74 *	7.91 *	5.83 *	2.82 *	0.79	0.44	0.18	0.02
<b>0</b>	9.65 *	8.66 *	8.74 *	7.91 *	5.83 *	2.82 *	0.79	0.44	0.18	0.02
<b>-1</b>	19.29 *	17.30 *	17.45 *	15.76 *	11.58 *	5.61 *	1.58	0.87	0.36	0.05
<b>-3</b>	19.26 *	17.21 *	17.37 *	15.63 *	11.37 *	5.48 *	1.56	0.87	0.36	0.05
<b>-5</b>	19.15 *	17.07 *	17.22 *	15.43 *	11.04 *	5.26 *	1.51	0.85	0.36	0.05
<b>-7</b>	18.94 *	16.88 *	16.97 *	15.11 *	10.59 *	4.98 *	1.46	0.84	0.35	0.05
<b>-9</b>	18.68 *	16.63 *	16.60 *	14.62 *	10.02 *	4.62 *	1.39	0.82	0.34	0.05
<b>-11</b>	18.37 *	16.29 *	16.11 *	13.99 *	9.34 *	4.18 *	1.31	0.80	0.33	0.05
<b>-13</b>	17.96 *	15.88 *	15.56 *	13.22 *	8.52 *	3.68 *	1.20	0.77	0.32	0.05
<b>-15</b>	17.48 *	15.39 *	14.85 *	12.27 *	7.64 *	3.21	1.08	0.73	0.31	0.05
<b>-17</b>	20.95 *	18.21 *	17.21 *	13.72 *	8.20 *	3.41	1.20	0.86	0.37	0.06
<b>-19.5</b>	23.03 *	19.57 *	17.99 *	13.66 *	7.68 *	3.18	1.26	0.94	0.41	0.06

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LUMENS TABULATION - (Cont.)

<b>-22.5</b>	19.68 *	16.32 *	14.36 *	10.27 *	5.49 *	2.33	1.07	0.84	0.37	0.06
<b>-25.5</b>	17.93 *	14.25 *	11.85 *	7.96 *	4.17	1.98	1.03	0.84	0.37	0.06
<b>-29</b>	13.58 *	10.19 *	7.95 *	5.08	2.75	1.57	0.94	0.79	0.35	0.07
<b>-33</b>	7.82 *	5.61 *	4.26	2.77	1.78	1.23	0.81	0.69	0.31	0.07
<b>-37.5</b>	3.50	2.50	2.07	1.60	1.23	0.96	0.67	0.56	0.26	0.07
<b>-42.5</b>	1.47	1.17	1.09	0.97	0.84	0.68	0.47	0.38	0.18	0.07
<b>-47.5</b>	0.95	0.82	0.82	0.76	0.68	0.57	0.39	0.32	0.19	0.08
<b>-55</b>	0.36	0.33	0.34	0.34	0.32	0.28	0.21	0.21	0.17	0.08
<b>-65</b>	0.15	0.13	0.14	0.15	0.14	0.14	0.12	0.13	0.11	0.05
<b>-75</b>	0.08	0.08	0.09	0.09	0.08	0.08	0.07	0.09	0.07	0.03
<b>-85</b>	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01
<b>-90</b>	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01
<b>Total</b>	536.61	461.06	438.10	362.62	238.63	112.53	40.29	27.30	12.17	2.38

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>				
	0.00	0.00	0.24	
<b>85</b>				
	0.01	0.00	1.37	
<b>75</b>				
	0.01	0.00	2.42	
<b>65</b>				
	0.02	0.00	5.67	
<b>55</b>				
	0.02	0.00	15.07	
<b>47.5</b>				
	0.02	0.00	25.85	
<b>42.5</b>				
	0.02	0.00	62.94	
<b>37.5</b>				
	0.02	0.00	123.97	
<b>33</b>				
	0.02	0.00	189.25	
<b>29</b>				
	0.01	0.00	232.71	
<b>25.5</b>				
	0.01	0.00	247.94	
<b>22.5</b>				
	0.01	0.00	287.03	
<b>19.5</b>				
	0.01	0.00	260.82	
<b>17</b>				
	0.01	0.00	217.96	

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

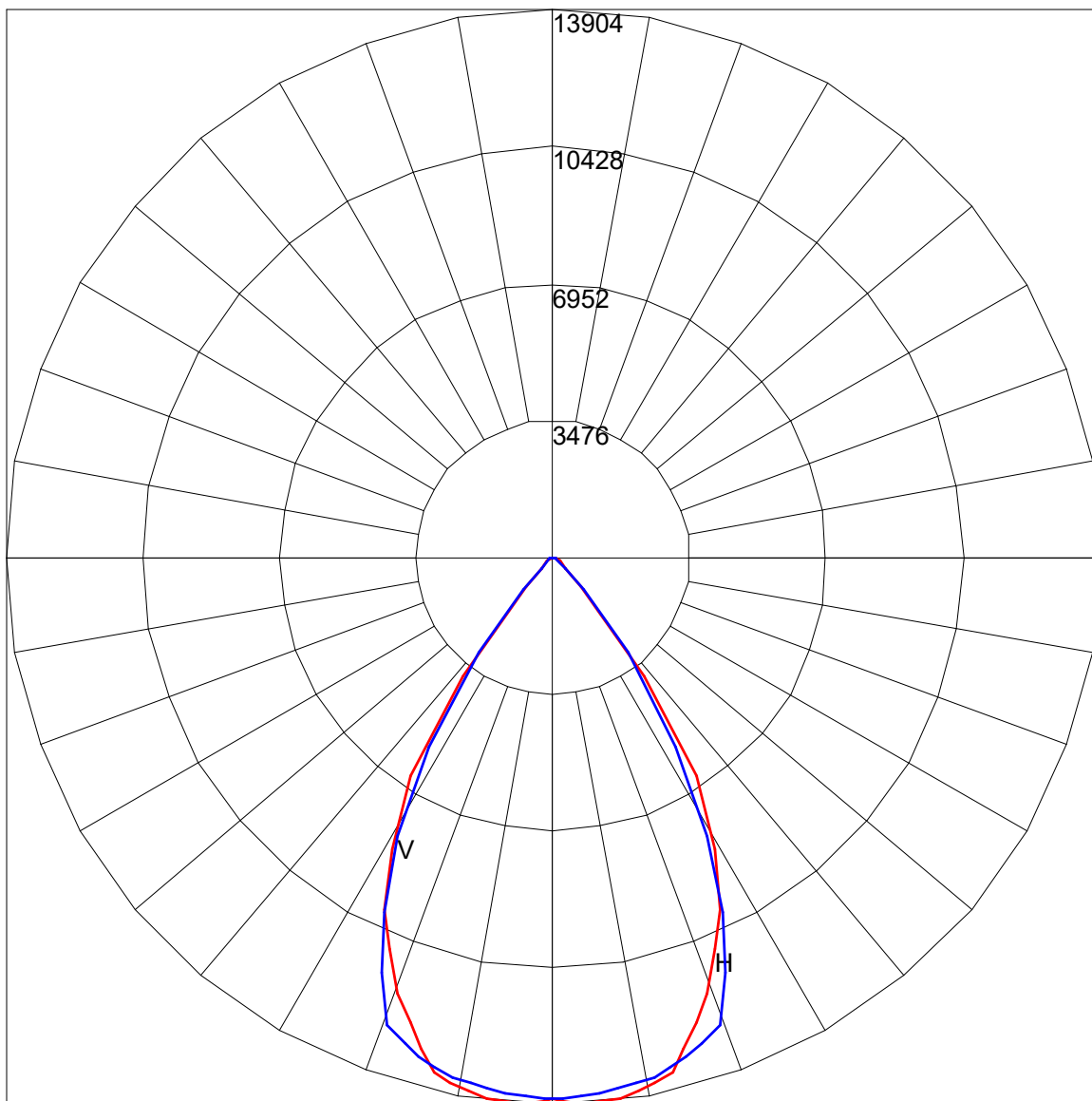
<b>15</b>	0.01	0.00	224.74
<b>13</b>	0.01	0.00	230.52
<b>11</b>	0.01	0.00	235.33
<b>9</b>	0.01	0.00	239.21
<b>7</b>	0.01	0.00	242.21
<b>5</b>	0.01	0.00	244.33
<b>3</b>	0.01	0.00	245.60
<b>1</b>	0.01	0.00	123.07
<b>0</b>	0.01	0.00	123.07
<b>-1</b>	0.01	0.00	245.60
<b>-3</b>	0.01	0.00	244.33
<b>-5</b>	0.01	0.00	242.21
<b>-7</b>	0.01	0.00	239.21
<b>-9</b>	0.01	0.00	235.33
<b>-11</b>	0.01	0.00	230.52
<b>-13</b>	0.01	0.00	224.74
<b>-15</b>	0.01	0.00	217.96
<b>-17</b>	0.01	0.00	260.82
<b>-19.5</b>	0.01	0.00	287.03
<b>-22.5</b>	0.01	0.00	247.94
<b>-25.5</b>	0.01	0.00	232.71
<b>-29</b>	0.02	0.00	189.25
<b>-33</b>	0.02	0.00	123.97
<b>-37.5</b>	0.02	0.00	62.94
<b>-42.5</b>	0.02	0.00	25.85
<b>-47.5</b>	0.02	0.00	15.07
<b>-55</b>	0.02	0.00	5.67
<b>-65</b>	0.01	0.00	2.42

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-40-80-FGS.IES**

**LUMENS TABULATION - (Cont.)**

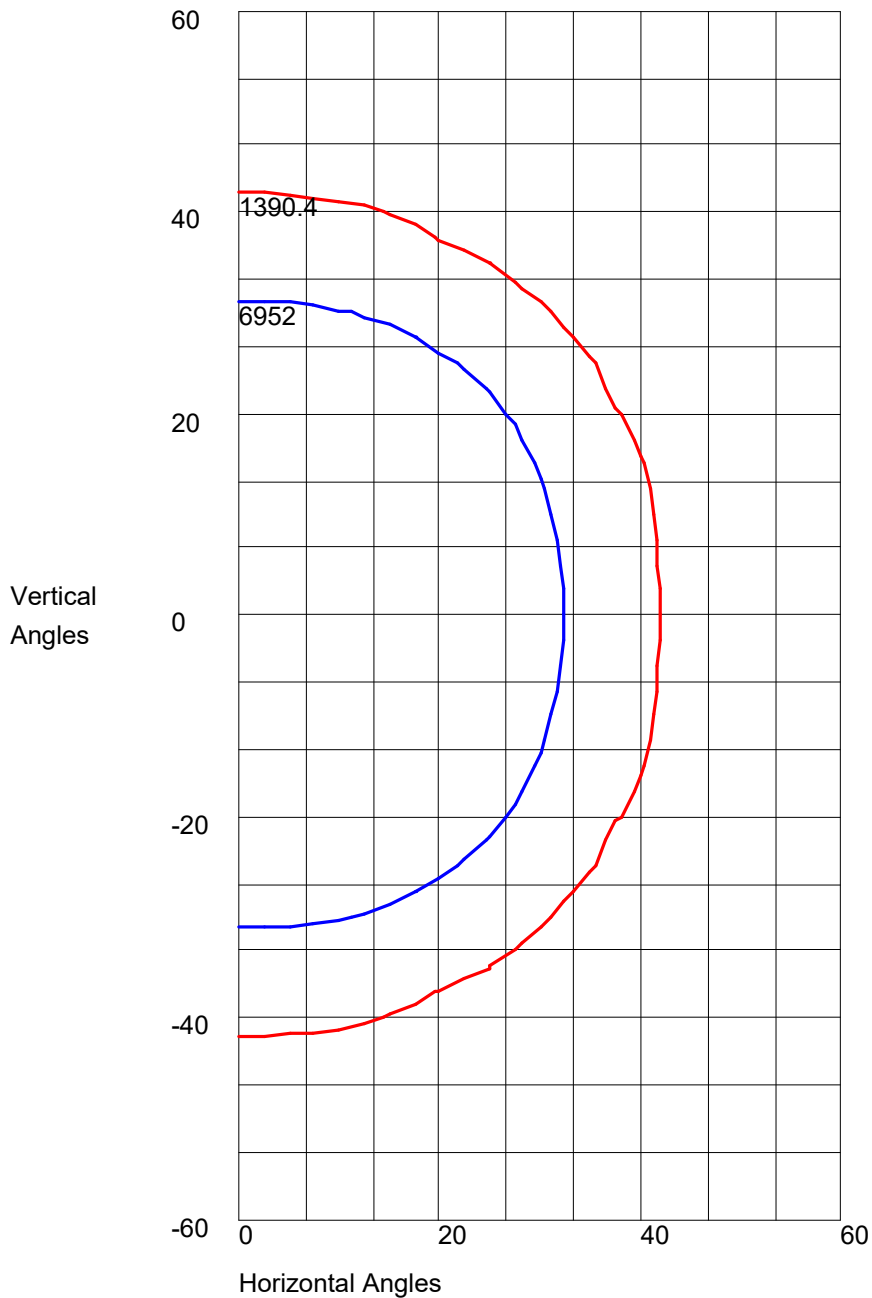
<b>-75</b>	0.01	0.00	1.37
<b>-85</b>	0.00	0.00	0.24
<b>-90</b>			
<b>Total</b>	0.54	0.02	6916.49

AXIAL CANDELA DISPLAY



Maximum Candela = 13904 Located At Horizontal Angle = -3, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 13904 Located At Horizontal Angle = -3, Vertical Angle = 0  
50% Maximum Candela = 6952  
10% Maximum Candela = 1390.4