



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12613
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/16/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] PFL-LED-16L-PC-WF-40-80-HGS
[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	13900
Maximum Candela Angle	-3H 0V
Horizontal Beam Angle (50%)	66.8
Vertical Beam Angle (50%)	63.5
Horizontal Field Angle (10%)	84.9
Vertical Field Angle (10%)	85.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	11237
Beam Efficiency	N.A.
Field Lumens	13826
Field Efficiency	N.A.
Spill Lumens	741
Luminaire Lumens	14567
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	5	85	23
75	16	75	40
65	85	65	180
55	244	55	375
47.5	489	47.5	647
42.5	1351	42.5	1340
37.5	4246	37.5	4056
33	7225	33	7699
29	9144	29	9914
25.5	10405	25.5	11177
22.5	11429	22.5	11935
19.5	12242	19.5	12485
17	12843	17	12841
15	13160	15	13074
13	13449	13	13259
11	13622	11	13412
9	13737	9	13536
7	13822	7	13629
5	13878	5	13695
3	13900	3	13713
1	13835	1	13760
0	13788	0	13788
-1	13835	-1	13775
-3	13900	-3	13752
-5	13878	-5	13740
-7	13822	-7	13702
-9	13737	-9	13637
-11	13622	-11	13541
-13	13449	-13	13416
-15	13160	-15	13270
-17	12843	-17	13081
-19.5	12242	-19.5	12785
-22.5	11429	-22.5	10729
-25.5	10405	-25.5	9427
-29	9144	-29	7337
-33	7225	-33	5489
-37.5	4246	-37.5	3520
-42.5	1351	-42.5	1527
-47.5	489	-47.5	236
-55	244	-55	2
-65	85	-65	1
-75	16	-75	1
-85	5	-85	3
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 13900

Beam Edge = 6950 Cd (50% of Max.)

Field Edge = 1390 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	1	4	9	13	15	16	17	19	20
75.0	0	3	9	13	18	20	26	29	30	34
65.0	0	4	11	18	43	66	81	97	110	124
55.0	0	5	12	34	88	131	162	196	225	250
47.5	0	5	14	51	129	192	238	290	334	380
42.5	0	5	15	61	155	230	285	350	419	491
37.5	0	5	17	70	177	262	329	420	541	719
33.0	0	5	17	78	193	288	375	516	763	1287
29.0	0	5	18	84	205	314	426	674	1249	2500 *
25.5	0	5	19	88	216	336	490	920	2128 *	3994 *
22.5	0	5	19	90	224	361	560	1222	3064 *	5366 *
19.5	0	5	19	92	231	383	659	1745 *	4060 *	6574 *
17.0	0	5	19	93	237	402	736	2207 *	4884 *	7353 *
15.0	0	5	19	93	241	422	847	2538 *	5476 *	7874 *
13.0	0	5	18	93	244	440	967	2956 *	5977 *	8231 *
11.0	0	5	18	93	246	456	1071	3324 *	6346 *	8536 *
9.0	0	5	18	93	248	469	1159	3633 *	6648 *	8784 *
7.0	0	5	18	92	249	479	1232	3881 *	6896 *	8970 *
5.0	0	5	17	90	248	487	1288	4067 *	7073 *	9086 *
3.0	0	5	17	89	248	493	1347	4188 *	7183 *	9150 *
1.0	0	5	16	86	245	490	1350	4250 *	7227 *	9158 *
0.0	0	5	16	85	244	489	1351	4246 *	7225 *	9144 *
-1.0	0	5	16	84	242	488	1353	4259 *	7225 *	9145 *
-3.0	0	5	15	81	238	485	1358	4215 *	7176 *	9113 *
-5.0	0	5	15	78	232	473	1305	4115 *	7078 *	9049 *
-7.0	0	5	14	74	225	460	1256	3953 *	6914 *	8938 *
-9.0	0	5	14	71	217	445	1186	3730 *	6683 *	8762 *
-11.0	0	5	13	67	209	426	1094	3448 *	6403 *	8519 *
-13.0	0	4	13	63	199	405	978	3100 *	6076 *	8224 *
-15.0	0	4	12	59	189	381	837	2668 *	5656 *	7878 *
-17.0	0	4	12	54	178	354	699	2317 *	5174 *	7300 *
-19.5	0	4	11	49	163	315	603	1839 *	4306 *	6422 *
-22.5	0	4	10	42	145	269	471	1277	3150 *	5124 *
-25.5	0	4	10	35	125	222	369	875	2194 *	3789 *
-29.0	0	4	9	28	102	178	271	534	1238	2472 *
-33.0	0	3	8	21	78	135	195	305	604	1216
-37.5	0	3	7	15	53	100	135	193	300	518
-42.5	0	3	6	11	27	62	87	116	158	216
-47.5	0	3	5	8	13	28	41	52	67	83
-55.0	0	2	3	5	5	6	7	6	8	5
-65.0	0	2	2	2	1	1	1	1	1	1
-75.0	0	1	2	2	1	1	1	1	1	1
-85.0	0	0	1	3	3	3	4	3	4	4
-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	20	21	21	22	22	22	22	23	23	23
75.0	37	39	41	42	42	42	42	42	41	41
65.0	135	144	154	161	166	169	172	174	176	178
55.0	274	293	310	325	336	347	356	362	367	370
47.5	422	458	499	528	553	575	596	613	627	637
42.5	574	663	775	856	957	1062	1152	1225	1283	1326
37.5	989	1297	1781 *	2203 *	2506 *	2917 *	3273 *	3570 *	3805 *	3979 *
33.0	2128 *	3039 *	4049 *	4898 *	5531 *	6088 *	6535 *	6897 *	7188 *	7406 *
29.0	3988 *	5357 *	6629 *	7544 *	8177 *	8640 *	9028 *	9349 *	9577 *	9748 *
25.5	5871 *	7304 *	8497 *	9297 *	9788 *	10188 *	10531 *	10742 *	10908 *	11046 *
22.5	7262 *	8586 *	9637 *	10344 *	10786 *	11113 *	11392 *	11584 *	11727 *	11828 *
19.5	8342 *	9535 *	10508 *	11122 *	11503 *	11816 *	12060 *	12221 *	12336 *	12427 *
17.0	9013 *	10112 *	10989 *	11578 *	11939 *	12219 *	12449 *	12595 *	12707 *	12787 *
15.0	9405 *	10457 *	11307 *	11902 *	12209 *	12496 *	12691 *	12843 *	12944 *	13015 *
13.0	9720 *	10744 *	11590 *	12146 *	12469 *	12729 *	12917 *	13047 *	13149 *	13209 *
11.0	9994 *	10999 *	11794 *	12360 *	12671 *	12930 *	13099 *	13223 *	13315 *	13372 *
9.0	10179 *	11151 *	11959 *	12526 *	12842 *	13110 *	13274 *	13376 *	13451 *	13506 *
7.0	10313 *	11277 *	12094 *	12647 *	12972 *	13251 *	13413 *	13515 *	13568 *	13607 *
5.0	10402 *	11376 *	12176 *	12773 *	13093 *	13347 *	13523 *	13630 *	13695 *	13694 *
3.0	10436 *	11442 *	12245 *	12851 *	13164 *	13430 *	13609 *	13714 *	13788 *	13814 *
1.0	10427 *	11457 *	12260 *	12865 *	13185 *	13467 *	13647 *	13762 *	13845 *	13897 *
0.0	10405 *	11429 *	12242 *	12843 *	13160 *	13449 *	13622 *	13737 *	13822 *	13878 *
-1.0	10423 *	11438 *	12251 *	12855 *	13183 *	13470 *	13651 *	13764 *	13844 *	13895 *
-3.0	10412 *	11394 *	12216 *	12823 *	13145 *	13427 *	13614 *	13722 *	13800 *	13816 *
-5.0	10337 *	11304 *	12124 *	12734 *	13076 *	13355 *	13557 *	13659 *	13714 *	13727 *
-7.0	10220 *	11176 *	12015 *	12617 *	12993 *	13279 *	13467 *	13570 *	13629 *	13655 *
-9.0	10082 *	11026 *	11876 *	12474 *	12879 *	13163 *	13360 *	13470 *	13533 *	13562 *
-11.0	9896 *	10831 *	11722 *	12328 *	12706 *	13027 *	13239 *	13349 *	13419 *	13449 *
-13.0	9630 *	10621 *	11501 *	12120 *	12541 *	12870 *	13091 *	13211 *	13280 *	13329 *
-15.0	9343 *	10360 *	11249 *	11906 *	12308 *	12671 *	12913 *	13046 *	13112 *	13178 *
-17.0	8950 *	10018 *	10885 *	11609 *	12070 *	12424 *	12718 *	12839 *	12922 *	12989 *
-19.5	8125 *	9160 *	10046 *	10837 *	11281 *	11778 *	12100 *	12230 *	12345 *	12633 *
-22.5	6675 *	7709 *	8621 *	9364 *	9847 *	10170 *	10451 *	10722 *	10739 *	10625 *
-25.5	5218 *	6213 *	7145 *	7751 *	8244 *	8586 *	8758 *	9016 *	9282 *	9465 *
-29.0	3585 *	4498 *	5302 *	5916 *	6268 *	6638 *	6998 *	7164 *	7192 *	7254 *
-33.0	2017 *	2695 *	3336 *	3839 *	4181 *	4450 *	4681 *	4926 *	5179 *	5375 *
-37.5	867	1260	1734 *	2124 *	2413 *	2685 *	2930 *	3141 *	3279 *	3384 *
-42.5	312	417	592	739	871	1020	1166	1287	1380	1451 *
-47.5	96	117	131	152	177	194	205	218	226	230
-55.0	6	5	4	4	4	3	3	3	2	2
-65.0	1	1	1	1	1	1	1	1	1	1
-75.0	1	1	1	1	1	1	1	1	1	1
-85.0	4	4	4	4	4	4	4	4	4	4
-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	23	23	23	23	23	23	23	23	22	22
75.0	41	40	40	40	41	41	41	42	42	42
65.0	179	180	180	180	179	178	176	174	172	169

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CANDELA TABULATION - (Cont.)

55.0	374	375	375	375	374	370	367	362	356	347
47.5	648	647	647	647	648	637	627	613	596	575
42.5	1368	1349	1340	1349	1368	1326	1283	1225	1152	1062
37.5	4089 *	4090 *	4056 *	4090 *	4089 *	3979 *	3805 *	3570 *	3273 *	2917 *
33.0	7548 *	7666 *	7699 *	7666 *	7548 *	7406 *	7188 *	6897 *	6535 *	6088 *
29.0	9866 *	9914 *	9914 *	9914 *	9866 *	9748 *	9577 *	9349 *	9028 *	8640 *
25.5	11137 *	11176 *	11177 *	11176 *	11137 *	11046 *	10908 *	10742 *	10531 *	10188 *
22.5	11899 *	11938 *	11935 *	11938 *	11899 *	11828 *	11727 *	11584 *	11392 *	11113 *
19.5	12468 *	12483 *	12485 *	12483 *	12468 *	12427 *	12336 *	12221 *	12060 *	11816 *
17.0	12827 *	12838 *	12841 *	12838 *	12827 *	12787 *	12707 *	12595 *	12449 *	12219 *
15.0	13057 *	13074 *	13074 *	13074 *	13057 *	13015 *	12944 *	12843 *	12691 *	12496 *
13.0	13248 *	13262 *	13259 *	13262 *	13248 *	13209 *	13149 *	13047 *	12917 *	12729 *
11.0	13405 *	13417 *	13412 *	13417 *	13405 *	13372 *	13315 *	13223 *	13099 *	12930 *
9.0	13533 *	13540 *	13536 *	13540 *	13533 *	13506 *	13451 *	13376 *	13274 *	13110 *
7.0	13629 *	13633 *	13629 *	13633 *	13629 *	13607 *	13568 *	13515 *	13413 *	13251 *
5.0	13698 *	13697 *	13695 *	13697 *	13698 *	13694 *	13695 *	13630 *	13523 *	13347 *
3.0	13760 *	13722 *	13713 *	13722 *	13760 *	13814 *	13788 *	13714 *	13609 *	13430 *
1.0	13897 *	13781 *	13760 *	13781 *	13897 *	13897 *	13845 *	13762 *	13647 *	13467 *
0.0	13900 *	13835 *	13788 *	13835 *	13900 *	13878 *	13822 *	13737 *	13622 *	13449 *
-1.0	13898 *	13790 *	13775 *	13790 *	13898 *	13895 *	13844 *	13764 *	13651 *	13470 *
-3.0	13777 *	13714 *	13752 *	13714 *	13777 *	13816 *	13800 *	13722 *	13614 *	13427 *
-5.0	13710 *	13703 *	13740 *	13703 *	13710 *	13727 *	13714 *	13659 *	13557 *	13355 *
-7.0	13646 *	13660 *	13702 *	13660 *	13646 *	13655 *	13629 *	13570 *	13467 *	13279 *
-9.0	13580 *	13594 *	13637 *	13594 *	13580 *	13562 *	13533 *	13470 *	13360 *	13163 *
-11.0	13489 *	13501 *	13541 *	13501 *	13489 *	13449 *	13419 *	13349 *	13239 *	13027 *
-13.0	13370 *	13385 *	13416 *	13385 *	13370 *	13329 *	13280 *	13211 *	13091 *	12870 *
-15.0	13222 *	13246 *	13270 *	13246 *	13222 *	13178 *	13112 *	13046 *	12913 *	12671 *
-17.0	13031 *	13058 *	13081 *	13058 *	13031 *	12989 *	12922 *	12839 *	12718 *	12424 *
-19.5	12739 *	12767 *	12785 *	12767 *	12739 *	12633 *	12345 *	12230 *	12100 *	11778 *
-22.5	10668 *	10724 *	10729 *	10724 *	10668 *	10625 *	10739 *	10722 *	10451 *	10170 *
-25.5	9491 *	9456 *	9427 *	9456 *	9491 *	9465 *	9282 *	9016 *	8758 *	8586 *
-29.0	7283 *	7330 *	7337 *	7330 *	7283 *	7254 *	7192 *	7164 *	6998 *	6638 *
-33.0	5495 *	5510 *	5489 *	5510 *	5495 *	5375 *	5179 *	4926 *	4681 *	4450 *
-37.5	3454 *	3511 *	3520 *	3511 *	3454 *	3384 *	3279 *	3141 *	2930 *	2685 *
-42.5	1530 *	1528 *	1527 *	1528 *	1530 *	1451 *	1380	1287	1166	1020
-47.5	237	236	236	236	237	230	226	218	205	194
-55.0	2	2	2	2	2	2	2	3	3	3
-65.0	1	1	1	1	1	1	1	1	1	1
-75.0	1	1	1	1	1	1	1	1	1	1
-85.0	4	3	3	3	4	4	4	4	4	4
-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	22	22	21	21	20	20	19	17	16	15
75.0	42	42	41	39	37	34	30	29	26	20
65.0	166	161	154	144	135	124	110	97	81	66
55.0	336	325	310	293	274	250	225	196	162	131
47.5	553	528	499	458	422	380	334	290	238	192
42.5	957	856	775	663	574	491	419	350	285	230
37.5	2506 *	2203 *	1781 *	1297	989	719	541	420	329	262
33.0	5531 *	4898 *	4049 *	3039 *	2128 *	1287	763	516	375	288
29.0	8177 *	7544 *	6629 *	5357 *	3988 *	2500 *	1249	674	426	314
25.5	9788 *	9297 *	8497 *	7304 *	5871 *	3994 *	2128 *	920	490	336

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CANDELA TABULATION - (Cont.)

22.5	10786 *	10344 *	9637 *	8586 *	7262 *	5366 *	3064 *	1222	560	361
19.5	11503 *	11122 *	10508 *	9535 *	8342 *	6574 *	4060 *	1745 *	659	383
17.0	11939 *	11578 *	10989 *	10112 *	9013 *	7353 *	4884 *	2207 *	736	402
15.0	12209 *	11902 *	11307 *	10457 *	9405 *	7874 *	5476 *	2538 *	847	422
13.0	12469 *	12146 *	11590 *	10744 *	9720 *	8231 *	5977 *	2956 *	967	440
11.0	12671 *	12360 *	11794 *	10999 *	9994 *	8536 *	6346 *	3324 *	1071	456
9.0	12842 *	12526 *	11959 *	11151 *	10179 *	8784 *	6648 *	3633 *	1159	469
7.0	12972 *	12647 *	12094 *	11277 *	10313 *	8970 *	6896 *	3881 *	1232	479
5.0	13093 *	12773 *	12176 *	11376 *	10402 *	9086 *	7073 *	4067 *	1288	487
3.0	13164 *	12851 *	12245 *	11442 *	10436 *	9150 *	7183 *	4188 *	1347	493
1.0	13185 *	12865 *	12260 *	11457 *	10427 *	9158 *	7227 *	4250 *	1350	490
0.0	13160 *	12843 *	12242 *	11429 *	10405 *	9144 *	7225 *	4246 *	1351	489
-1.0	13183 *	12855 *	12251 *	11438 *	10423 *	9145 *	7225 *	4259 *	1353	488
-3.0	13145 *	12823 *	12216 *	11394 *	10412 *	9113 *	7176 *	4215 *	1358	485
-5.0	13076 *	12734 *	12124 *	11304 *	10337 *	9049 *	7078 *	4115 *	1305	473
-7.0	12993 *	12617 *	12015 *	11176 *	10220 *	8938 *	6914 *	3953 *	1256	460
-9.0	12879 *	12474 *	11876 *	11026 *	10082 *	8762 *	6683 *	3730 *	1186	445
-11.0	12706 *	12328 *	11722 *	10831 *	9896 *	8519 *	6403 *	3448 *	1094	426
-13.0	12541 *	12120 *	11501 *	10621 *	9630 *	8224 *	6076 *	3100 *	978	405
-15.0	12308 *	11906 *	11249 *	10360 *	9343 *	7878 *	5656 *	2668 *	837	381
-17.0	12070 *	11609 *	10885 *	10018 *	8950 *	7300 *	5174 *	2317 *	699	354
-19.5	11281 *	10837 *	10046 *	9160 *	8125 *	6422 *	4306 *	1839 *	603	315
-22.5	9847 *	9364 *	8621 *	7709 *	6675 *	5124 *	3150 *	1277	471	269
-25.5	8244 *	7751 *	7145 *	6213 *	5218 *	3789 *	2194 *	875	369	222
-29.0	6268 *	5916 *	5302 *	4498 *	3585 *	2472 *	1238	534	271	178
-33.0	4181 *	3839 *	3336 *	2695 *	2017 *	1216	604	305	195	135
-37.5	2413 *	2124 *	1734 *	1260	867	518	300	193	135	100
-42.5	871	739	592	417	312	216	158	116	87	62
-47.5	177	152	131	117	96	83	67	52	41	28
-55.0	4	4	4	5	6	5	8	6	7	6
-65.0	1	1	1	1	1	1	1	1	1	1
-75.0	1	1	1	1	1	1	1	1	1	1
-85.0	4	4	4	4	4	4	4	3	4	3
-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	13	9	4	1	0
75.0	18	13	9	3	0
65.0	43	18	11	4	0
55.0	88	34	12	5	0
47.5	129	51	14	5	0
42.5	155	61	15	5	0
37.5	177	70	17	5	0
33.0	193	78	17	5	0
29.0	205	84	18	5	0
25.5	216	88	19	5	0
22.5	224	90	19	5	0
19.5	231	92	19	5	0
17.0	237	93	19	5	0
15.0	241	93	19	5	0
13.0	244	93	18	5	0
11.0	246	93	18	5	0
9.0	248	93	18	5	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	249	92	18	5	0
5.0	248	90	17	5	0
3.0	248	89	17	5	0
1.0	245	86	16	5	0
0.0	244	85	16	5	0
-1.0	242	84	16	5	0
-3.0	238	81	15	5	0
-5.0	232	78	15	5	0
-7.0	225	74	14	5	0
-9.0	217	71	14	5	0
-11.0	209	67	13	5	0
-13.0	199	63	13	4	0
-15.0	189	59	12	4	0
-17.0	178	54	12	4	0
-19.5	163	49	11	4	0
-22.5	145	42	10	4	0
-25.5	125	35	10	4	0
-29.0	102	28	9	4	0
-33.0	78	21	8	3	0
-37.5	53	15	7	3	0
-42.5	27	11	6	3	0
-47.5	13	8	5	3	0
-55.0	5	5	3	2	0
-65.0	1	2	2	2	0
-75.0	1	2	2	1	0
-85.0	3	3	1	0	0
-90.0	0	0	0	0	0

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 7283.67

Total Field Lumens (one side of beam only) = 6913.04

* 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	0.02	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
75	0.10	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.23
65	0.34	0.67	0.67	0.66	0.65	0.64	0.63	0.62	0.60	0.72
55	0.85	1.69	1.67	1.65	1.63	1.60	1.56	1.50	1.45	1.72
47.5	1.17	2.33	2.31	2.27	2.23	2.17	2.09	2.01	1.91	2.25
42.5	1.52	3.05	3.02	2.93	2.83	2.69	2.52	2.33	2.12	2.40
37.5	4.13 *	8.29 *	8.18 *	7.87 *	7.45 *	6.91 *	6.26 *	5.50 *	4.77 *	5.08 *
33	8.06 *	16.02 *	15.74 *	15.25 *	14.56 *	13.68 *	12.61 *	11.33 *	9.97 *	10.52 *
29	10.72 *	21.31 *	21.01 *	20.55 *	19.91 *	19.08 *	18.05 *	16.81 *	15.31 *	16.72 *
25.5	11.24 *	22.42 *	22.23 *	21.88 *	21.42 *	20.81 *	20.02 *	19.03 *	17.83 *	20.23 *
22.5	10.56 *	21.07 *	20.93 *	20.68 *	20.34 *	19.91 *	19.32 *	18.56 *	17.66 *	20.49 *
19.5	11.16 *	22.28 *	22.16 *	21.96 *	21.66 *	21.26 *	20.73 *	20.05 *	19.22 *	22.57 *
17	9.64 *	19.26 *	19.18 *	19.03 *	18.80 *	18.50 *	18.08 *	17.54 *	16.89 *	19.98 *
15	7.89 *	15.77 *	15.71 *	15.59 *	15.41 *	15.17 *	14.85 *	14.44 *	13.95 *	16.55 *
13	8.02 *	16.02 *	15.96 *	15.85 *	15.68 *	15.45 *	15.15 *	14.75 *	14.27 *	16.97 *
11	8.13 *	16.24 *	16.18 *	16.07 *	15.91 *	15.68 *	15.40 *	15.01 *	14.54 *	17.32 *
9	8.21 *	16.41 *	16.35 *	16.25 *	16.10 *	15.89 *	15.62 *	15.24 *	14.76 *	17.59 *
7	8.28 *	16.54 *	16.49 *	16.40 *	16.26 *	16.07 *	15.81 *	15.42 *	14.93 *	17.80 *
5	8.32 *	16.64 *	16.60 *	16.53 *	16.41 *	16.22 *	15.95 *	15.56 *	15.07 *	17.97 *
3	8.35 *	16.71 *	16.70 *	16.66 *	16.54 *	16.34 *	16.06 *	15.67 *	15.19 *	18.10 *
1	8.37 *	16.79 *	16.82 *	16.77 *	16.62 *	16.42 *	16.13 *	15.74 *	15.24 *	18.16 *
0	4.20 *	8.43 *	8.44 *	8.40 *	8.32 *	8.21 *	8.07 *	7.87 *	7.62 *	9.08 *
-1	4.20 *	8.44 *	8.44 *	8.40 *	8.32 *	8.22 *	8.07 *	7.87 *	7.62 *	9.07 *
	8.38 *	16.80 *	16.83 *	16.77 *	16.63 *	16.42 *	16.14 *	15.73 *	15.23 *	18.13 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	8.36 *	16.71 *	16.72 *	16.68 *	16.56 *	16.36 *	16.08 *	15.67 *	15.16 *	18.04 *
-5	8.35 *	16.66 *	16.63 *	16.58 *	16.46 *	16.27 *	15.99 *	15.58 *	15.06 *	17.90 *
-7	8.31 *	16.58 *	16.54 *	16.47 *	16.35 *	16.16 *	15.87 *	15.46 *	14.92 *	17.71 *
-9	8.27 *	16.49 *	16.43 *	16.35 *	16.22 *	16.02 *	15.73 *	15.30 *	14.75 *	17.50 *
-11	8.20 *	16.36 *	16.30 *	16.20 *	16.06 *	15.87 *	15.56 *	15.12 *	14.55 *	17.24 *
-13	8.12 *	16.20 *	16.13 *	16.02 *	15.88 *	15.68 *	15.36 *	14.89 *	14.31 *	16.91 *
-15	8.02 *	16.00 *	15.93 *	15.81 *	15.66 *	15.45 *	15.11 *	14.62 *	14.02 *	16.51 *
-17	9.84 *	19.63 *	19.52 *	19.27 *	18.98 *	18.71 *	18.26 *	17.57 *	16.76 *	19.61 *
-19.5	10.74 *	21.41 *	21.27 *	21.06 *	20.83 *	20.47 *	19.89 *	19.10 *	18.15 *	21.08 *
-22.5	9.21 *	18.42 *	18.35 *	18.23 *	17.99 *	17.52 *	16.97 *	16.34 *	15.46 *	17.83 *
-25.5	8.94 *	17.88 *	17.81 *	17.60 *	17.24 *	16.76 *	16.15 *	15.38 *	14.44 *	16.52 *
-29	7.82 *	15.60 *	15.44 *	15.15 *	14.76 *	14.26 *	13.57 *	12.73 *	11.83 *	13.30 *
-33	6.18 *	12.31 *	12.11 *	11.74 *	11.22 *	10.58 *	9.89 *	9.13 *	8.27 *	8.98 *
-37.5	3.84 *	7.63 *	7.46 *	7.19 *	6.85 *	6.39 *	5.81 *	5.16 *	4.50 *	4.69
-42.5	1.34	2.69	2.62	2.49	2.35	2.16	1.93	1.67	1.42	1.46
-47.5	0.27	0.54	0.54	0.52	0.51	0.48	0.45	0.42	0.37	0.39
-55	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
-65	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-75	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.02
-85	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-90	267.67	534.56	531.69	526.03	517.86	506.80	491.97	472.98	450.40	525.40

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.05	0.04	0.02
85	0.26	0.24	0.26	0.27	0.27	0.26	0.21	0.24	0.20	0.09
75	0.81	0.74	0.78	0.78	0.74	0.68	0.52	0.53	0.35	0.13
65	1.92	1.77	1.86	1.85	1.76	1.56	1.18	1.17	0.70	0.20
55	2.50	2.26	2.36	2.33	2.19	1.94	1.46	1.45	0.86	0.22

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	2.55	2.21	2.21	2.12	1.95	1.70	1.27	1.26	0.75	0.18
42.5										
	4.82	3.68	3.28	2.83	2.42	2.02	1.49	1.47	0.88	0.21
37.5										
	9.76 *	7.00 *	5.46	3.89	2.82	2.15	1.52	1.48	0.89	0.21
33										
	16.27 *	12.11 *	9.38 *	6.06 *	3.58	2.32	1.51	1.43	0.85	0.20
29										
	20.74 *	16.45 *	13.56 *	9.02 *	4.87	2.56	1.48	1.34	0.79	0.19
25.5										
	21.77 *	18.17 *	15.99 *	11.40 *	6.16 *	2.79	1.41	1.22	0.71	0.17
22.5										
	24.48 *	21.11 *	19.58 *	14.93 *	8.47 *	3.66	1.59	1.29	0.73	0.17
19.5										
	21.94 *	19.30 *	18.53 *	14.93 *	9.02 *	3.90	1.47	1.12	0.62	0.15
17										
	18.28 *	16.27 *	15.94 *	13.36 *	8.45 *	3.69 *	1.30	0.93	0.51	0.12
15										
	18.81 *	16.83 *	16.69 *	14.39 *	9.48 *	4.26 *	1.44	0.96	0.51	0.12
13										
	19.25 *	17.30 *	17.29 *	15.19 *	10.41 *	4.85 *	1.58	0.99	0.51	0.12
11										
	19.58 *	17.66 *	17.77 *	15.83 *	11.16 *	5.36 *	1.70	1.01	0.52	0.12
9										
	19.83 *	17.91 *	18.12 *	16.34 *	11.78 *	5.78 *	1.80	1.03	0.52	0.11
7										
	20.01 *	18.10 *	18.37 *	16.72 *	12.26 *	6.10 *	1.88	1.05	0.52	0.11
5										
	20.15 *	18.22 *	18.51 *	16.96 *	12.60 *	6.35 *	1.95	1.05	0.51	0.11
3										
	20.22 *	18.27 *	18.56 *	17.08 *	12.79 *	6.49 *	1.98	1.05	0.51	0.11
1										
	10.11 *	9.12 *	9.27 *	8.55 *	6.42 *	3.26 *	0.99	0.52	0.25	0.05
0										
	10.10 *	9.12 *	9.27 *	8.55 *	6.42 *	3.27 *	0.99	0.52	0.25	0.05
-1										
	20.17 *	18.23 *	18.52 *	17.05 *	12.80 *	6.52 *	1.98	1.04	0.49	0.10
-3										
	20.06 *	18.13 *	18.44 *	16.92 *	12.64 *	6.41 *	1.95	1.02	0.48	0.10
-5										
	19.88 *	17.96 *	18.26 *	16.70 *	12.34 *	6.20 *	1.88	0.99	0.46	0.09
-7										
	19.66 *	17.74 *	18.01 *	16.34 *	11.91 *	5.90 *	1.80	0.96	0.45	0.09
-9										
	19.39 *	17.46 *	17.65 *	15.85 *	11.34 *	5.52 *	1.70	0.93	0.43	0.09
-11										
	19.06 *	17.10 *	17.19 *	15.26 *	10.65 *	5.03 *	1.56	0.89	0.41	0.08
-13										
	18.65 *	16.68 *	16.62 *	14.53 *	9.79 *	4.42 *	1.40	0.84	0.39	0.08
-15										
	18.13 *	16.14 *	15.86 *	13.58 *	8.85 *	3.80 *	1.22	0.79	0.37	0.07
-17										
	21.38 *	18.91 *	18.24 *	15.14 *	9.54 *	3.98	1.33	0.90	0.42	0.08
-19.5										
	22.74 *	19.83 *	18.73 *	14.88 *	8.87 *	3.67	1.34	0.96	0.46	0.09

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	18.99 *	16.16 *	14.79 *	11.17 *	6.29 *	2.62	1.07	0.82	0.40	0.08
-25.5	17.29 *	14.25 *	12.49 *	8.86 *	4.74	2.09	0.98	0.78	0.39	0.07
-29	13.50 *	10.68 *	8.80 *	5.77	3.00	1.52	0.84	0.70	0.35	0.07
-33	8.66 *	6.42 *	4.92	3.10	1.77	1.09	0.68	0.59	0.29	0.06
-37.5	4.27	2.98	2.27	1.56	1.07	0.77	0.52	0.43	0.20	0.05
-42.5	1.34	0.98	0.84	0.68	0.55	0.43	0.29	0.23	0.11	0.04
-47.5	0.41	0.35	0.34	0.32	0.28	0.23	0.17	0.14	0.09	0.04
-55	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.03
-65	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
-75	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.02
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	567.84	493.99	475.14	401.22	272.60	135.30	51.54	36.27	19.25	4.51

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.00	0.00		0.77
85				
	0.02	0.00		4.18
75				
	0.04	0.00		12.30
65				
	0.04	0.00		29.31
55				
	0.04	0.00		38.34
47.5				
	0.03	0.00		41.64
42.5				
	0.03	0.00		87.57
37.5				
	0.03	0.00		162.96
33				
	0.02	0.00		233.23
29				
	0.02	0.00		268.13
25.5				
	0.02	0.00		269.32
22.5				
	0.02	0.00		299.06
19.5				
	0.02	0.00		267.88
17				
	0.01	0.00		224.19

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

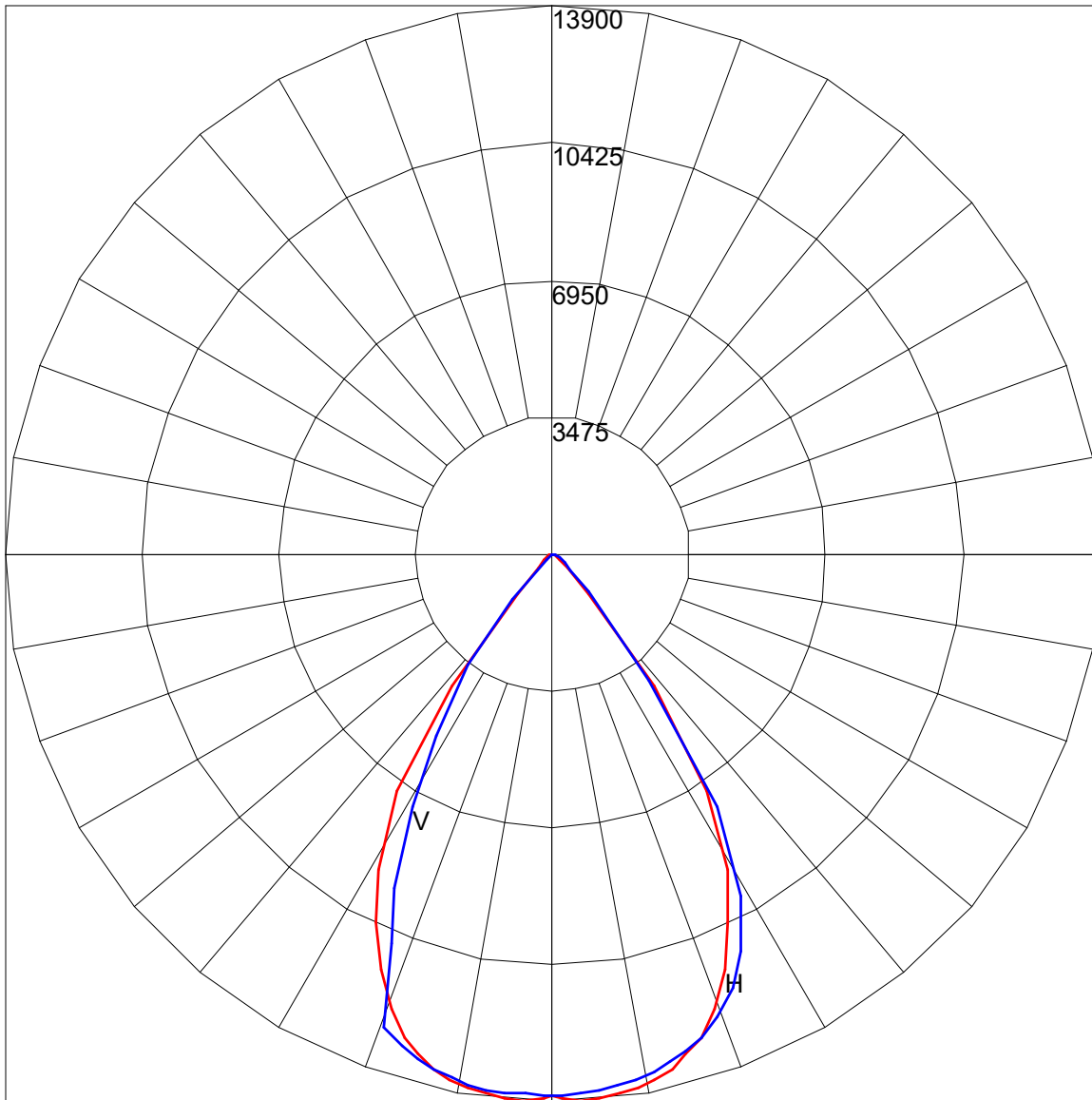
15			
	0.01	0.00	231.63
13			
	0.01	0.00	237.96
11			
	0.01	0.00	243.12
9			
	0.01	0.00	247.23
7			
	0.01	0.00	250.42
5			
	0.01	0.00	252.75
3			
	0.01	0.00	254.14
1			
	0.01	0.00	127.21
0			
	0.01	0.00	127.20
-1			
	0.01	0.00	253.98
-3			
	0.01	0.00	252.51
-5			
	0.01	0.00	250.26
-7			
	0.01	0.00	247.26
-9			
	0.01	0.00	243.42
-11			
	0.01	0.00	238.68
-13			
	0.01	0.00	232.92
-15			
	0.01	0.00	225.96
-17			
	0.01	0.00	268.08
-19.5			
	0.01	0.00	285.56
-22.5			
	0.01	0.00	238.71
-25.5			
	0.01	0.00	220.68
-29			
	0.01	0.00	179.71
-33			
	0.01	0.00	127.98
-37.5			
	0.01	0.00	73.66
-42.5			
	0.01	0.00	25.63
-47.5			
	0.01	0.00	6.88
-55			
	0.01	0.00	0.50
-65			
	0.01	0.00	0.20

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

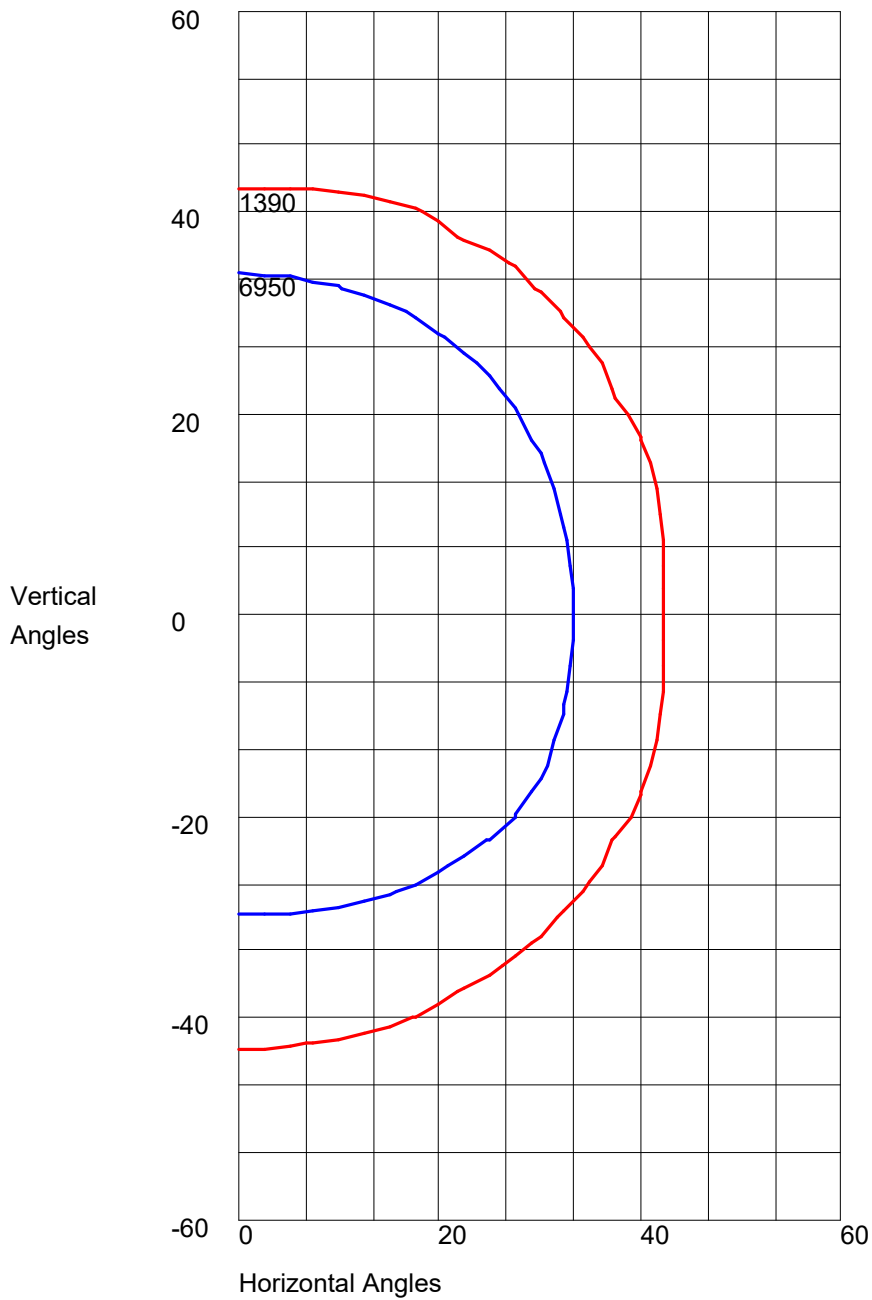
-75	0.01	0.00	0.40
-85	0.00	0.00	0.15
-90			
Total	0.64	0.02	7283.67

AXIAL CANDELA DISPLAY



Maximum Candela = 13900 Located At Horizontal Angle = -3, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 13900 Located At Horizontal Angle = -3, Vertical Angle = 0
50% Maximum Candela = 6950
10% Maximum Candela = 1390