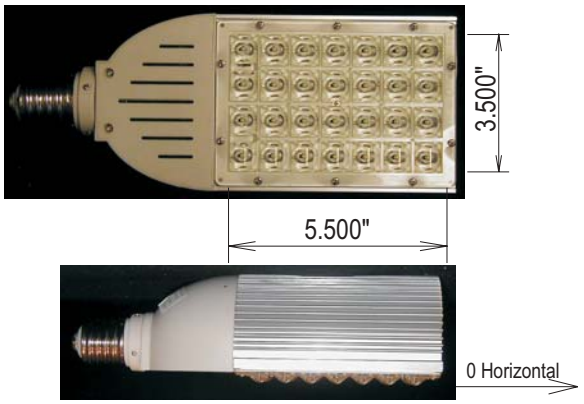
LTL LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING MEMBER of the IESNA

905 Harrison Street · Allentown, PA 18103 · 610-770-1044 · Fax 610-770-8912 · www.LuminaireTesting.com

LTL NUMBER: 15226 DATE: 03-31-2009
PREPARED FOR: FALA TECHNOLOGIES, INC.
CATALOG NUMBER: GHS28 REPLACEMENT LED
LUMINAIRE: FORMED PLASTIC AND EXTRUDED ALUMINUM HEATSINK HOUSING, CLEAR PLASTIC ENCLOSURE.
LAMP: MOGUL BASE LED REPLACEMENT LAMP WITH 28 WHITE LEDS
LED POWER SUPPLY: INTEGRAL
POWER FACTOR: 0.912
ELECTRICAL VALUES: 120.0VAC, 0.2537A, 27.77W
LUMINAIRE EFFICACY: 57.14 LUMENS/WATT
NOTE: THIS TEST WAS PERFORMED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY.*



IES CLASSIFICATION: **TYPE II**
LONGITUDINAL CLASSIFICATION: **SHORT**
CUTOFF CLASSIFICATION: **SEMI-CUTOFF****

**CUTOFF DESIGNATION IS NOT DEFINED FOR ABSOLUTE PHOTOMETRIC TESTS. THIS CUTOFF RATING IS BASED ON THE MAXIMUM CANDELA READING PER LUMINAIRE RATED AT 1000 LUMENS.

FLUX DISTRIBUTION

LUMENS	DOWNWARD	UPWARD	TOTALS
HOUSE SIDE	670.55	8.12	678.67
STREET SIDE	895.17	13.16	908.33
TOTALS	1565.72	21.29	1587.01

Approved By: MG

*DATA WAS ACQUIRED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY. A UDT MODEL #211 PHOTODETECTOR AND UDT MODEL #S370 OPTOMETER COMBINATION WERE USED AS A STANDARD. A SPECTRAL MISMATCH CORRECTION FACTOR WAS EMPLOYED BASED ON THE SPECTRAL RESPONSIVITY OF THE PHOTODETECTOR AND THE SPECTRAL POWER DISTRIBUTION OF THE TEST SUBJECT.

TESTING WAS PERFORMED IN ACCORDANCE WITH IES LM-79-08.

TEST ANGULAR INCREMENTS AND REPORT FORMATTING WAS BASED ON IES LM-31-95.

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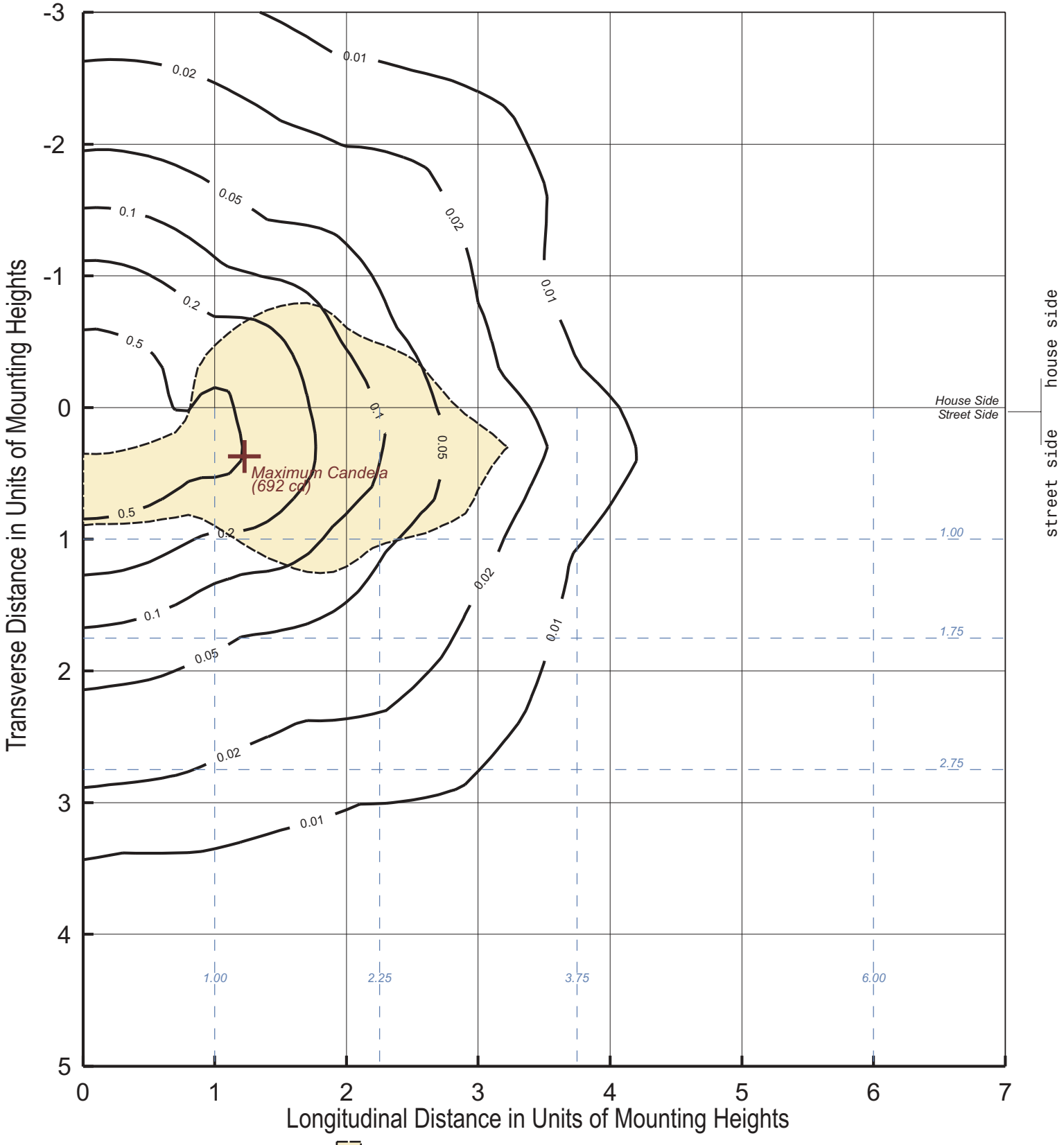
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
VALUES BASED ON 18.00 FOOT MOUNTING HEIGHT



PROJECTION OF HALF-MAX CANDELA CONTOUR

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CANDELA DISTRIBUTION

	0	5	15	25	35	45	55	65	73.1	75	85
180	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0
125	0	0	1	1	1	1	1	2	2	2	2
115	2	2	2	2	2	2	2	3	3	3	2
105	2	2	2	3	3	4	5	9	11	11	5
95	12	11	13	14	16	21	24	17	15	13	8
90	17	18	21	26	38	48	41	38	46	38	25
87.5	23	22	27	30	51	61	54	54	70	61	44
85	27	27	34	36	79	75	70	94	93	84	81
82.5	34	33	43	49	107	89	132	117	109	106	130
80	40	40	50	77	146	179	203	146	131	136	188
77.5	48	48	62	123	173	231	229	189	162	177	249
75	104	95	127	157	178	246	252	234	223	235	306
72.5	174	168	176	170	183	257	276	272	305	316	353
70	188	185	187	180	190	263	300	308	375	411	418
67.5	202	198	198	192	197	267	326	351	439	477	498
65	213	209	209	204	205	269	353	401	495	524	521
62.5	225	220	219	215	215	269	382	456	544	560	533
60	235	231	231	227	226	270	410	513	587	591	540
57.5	246	242	243	241	239	276	434	571	626	615	547
55	258	255	256	256	255	287	450	619	662	641	557
52.5	271	267	271	271	274	307	456	641	690	663	578
52	273	270	273	274	278	312	457	640	**692**	667	583
50	284	281	284	287	298	334	454	624	680	664	597
47.5	298	296	299	307	326	364	448	582	628	622	579
45	316	313	320	334	358	394	445	523	561	557	526
40	364	363	373	391	414	435	439	424	418	404	380
35	413	410	418	429	438	436	415	374	353	331	300
30	434	429	431	430	422	405	374	333	314	296	272
25	410	405	402	394	377	352	324	293	280	268	253
20	355	350	345	333	318	299	280	261	255	248	240
15	295	293	287	280	272	263	254	246	245	243	241
10	256	255	253	251	249	248	247	248	248	249	252
5	252	252	252	253	254	257	258	261	260	264	266
0	272	272	272	272	272	272	272	272	272	272	272

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CANDELA DISTRIBUTION

	90	95	105	115	125	135	145	155	165	175	180
180	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0
125	2	2	2	1	0	0	0	0	0	0	0
115	2	2	2	2	2	1	0	0	0	0	0
105	5	5	6	7	4	2	2	0	0	0	0
95	8	8	12	14	16	12	7	4	1	0	0
90	21	24	34	35	37	38	25	17	13	11	9
87.5	38	38	52	48	48	51	33	23	21	18	16
85	71	58	74	76	63	63	43	30	28	22	21
82.5	111	81	88	111	106	74	73	39	37	29	27
80	161	112	103	152	172	135	99	57	43	35	33
77.5	214	152	121	189	205	166	116	79	51	41	38
75	262	195	159	215	225	169	125	110	89	68	53
72.5	304	237	217	238	241	170	134	135	137	129	119
70	367	321	262	261	252	172	143	145	149	145	141
67.5	447	399	301	288	260	175	153	156	159	156	151
65	478	439	342	315	261	178	164	166	168	166	161
62.5	496	468	386	342	258	183	173	176	177	175	171
60	508	488	435	367	252	187	182	185	186	185	181
57.5	518	508	479	386	246	193	191	194	195	194	190
55	534	529	515	390	242	199	199	203	204	202	199
52.5	558	556	531	382	243	208	208	211	212	210	206
52	563	560	531	378	243	210	210	213	214	211	208
50	577	567	515	363	249	218	216	218	218	217	214
47.5	559	541	471	341	258	230	223	223	223	220	218
45	506	484	414	323	270	245	233	230	227	225	221
40	366	351	322	303	288	270	257	247	240	237	233
35	292	287	285	288	287	278	270	261	256	253	248
30	266	262	261	266	271	270	265	261	259	258	254
25	248	246	244	246	250	253	253	252	251	251	247
20	238	237	237	240	243	244	245	245	245	246	244
15	241	242	244	248	253	255	258	258	257	258	256
10	253	256	259	263	267	270	275	277	279	279	278
5	267	269	272	275	277	279	281	282	283	283	282
0	272	272	272	272	272	272	272	272	272	272	272

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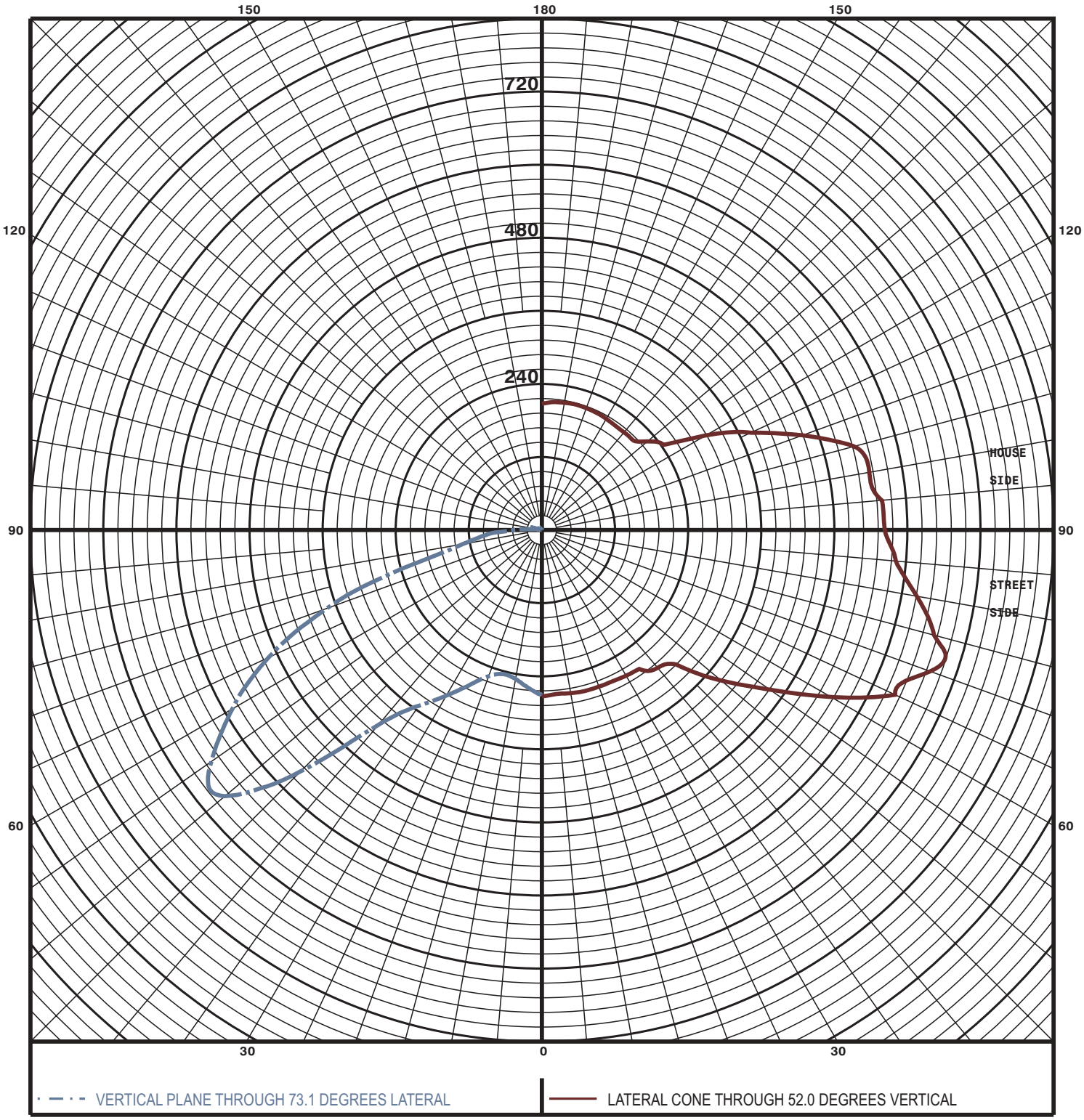
MAXIMUM PLANE AND CONE PLOTS OF CANDELA



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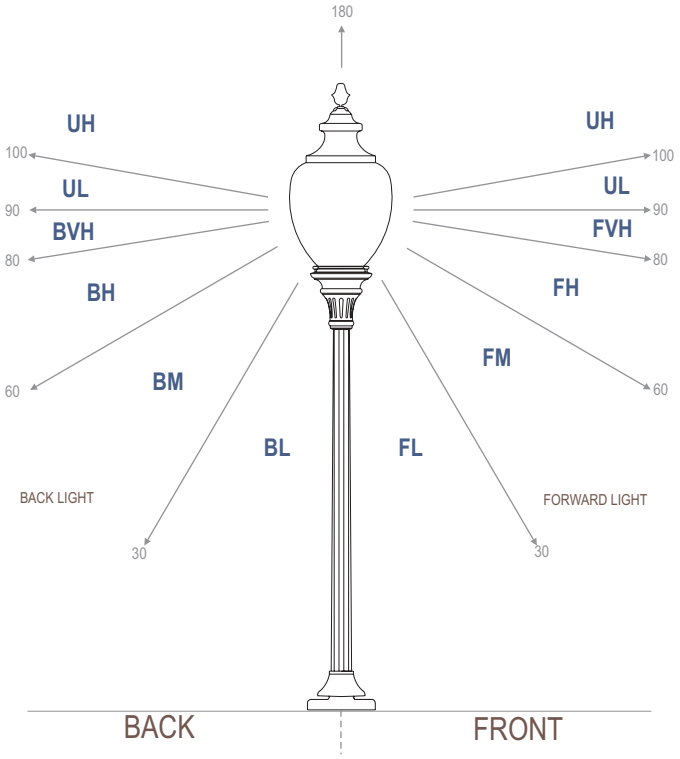
FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



FLUX

ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS	
FORWARD LIGHT	895	56.4	
FL (0°-30°)	130	8.2	
FM (30°-60°)	463	29.1	
FH (60°-80°)	265	16.7	
FVH (80°-90°)	38	2.4	
BACK LIGHT	671	42.3	
BL (0°-30°)	107	6.7	
BM (30°-60°)	333	21	
BH (60°-80°)	201	12.7	
BVH (80°-90°)	30	1.9	
UPLIGHT	21	1.3	
UL (90°-100°)	15	0.9	
UH (100°-180°)	6	0.4	
TRAPPED LIGHT	NA	NA