

# AREA & ROADWAY LIGHTING

## LAE SERIES - LED

### SPECIFICATIONS

#### Luminaire

One piece high impact clear acrylic patterned diffusing globe provided with durable corrosion resistant cast aluminum fitter. Standard fitter has 3" I.D. opening for 2.88" OD tenon. All hardware is stainless steel. Luminaire is UL® Listed for Wet Location.

#### LED POWER ARRAY™ 2

Three-dimensional array of individual LED Tubes fastened to retaining plates. Each LED Tube consists of circuit board populated with a multiple of LED's covered with a gasketed acrylic lens and mechanically fastened to an extruded aluminum heatsink. Tubes are sealed to a an IP65 Standard.

**Area and Roadway Distributions:** Acrylic Tube Lenses have individual molded-in refractive optics for each LED and provides concisely tailored beam patterns. LED Tubes are uniquely aimed horizontally and beam patterns combine to produce wide throw, highly efficient IES Distribution Types II, III, IV and V with minimal uplight. Used in conjunction with a clear patterned diffusing globe only.

**General Diffused Lighting:** Acrylic Tube Lense provides duffusion of the raw LED distributions. Tubes are combined to produce uniform luminance of the outer globe. Used in conjunction with an opal patterned diffusing globe only.

#### LED Emitters

High Power White LED's are driven between 350mA and 700mA for a maximum output of 2 Watts nominal. LED's are available in standard Neutral White (4000K), Cool White (5000K), or Warm White (2700K & 3000K). All Standard LED's have a minimum of 70 CRI. Consult Factory for other LED options. Lumen Maintenance of L94 at 60,000 hours (TM-21 calculated at 6x Test Time).

#### LED Driver

Constant current electronic with a power factor of >0.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50/60Hz. 0-10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field installation.

**True Amber LED's** TRA-True Amber LED's emit light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

#### Finish

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

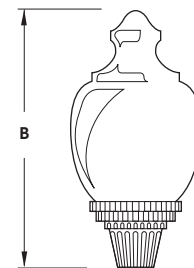
PROJECT NAME: \_\_\_\_\_

PROJECT TYPE: \_\_\_\_\_



## L A E

SHOWN WITH STANDARD -YA FITTER



FIXTURE	A	B
LAE1*	16.5" 419mm	32" 813mm
LAE2*	14" 356mm	27.5" 699mm

\*Height Varies With Fitter. See Page 3.

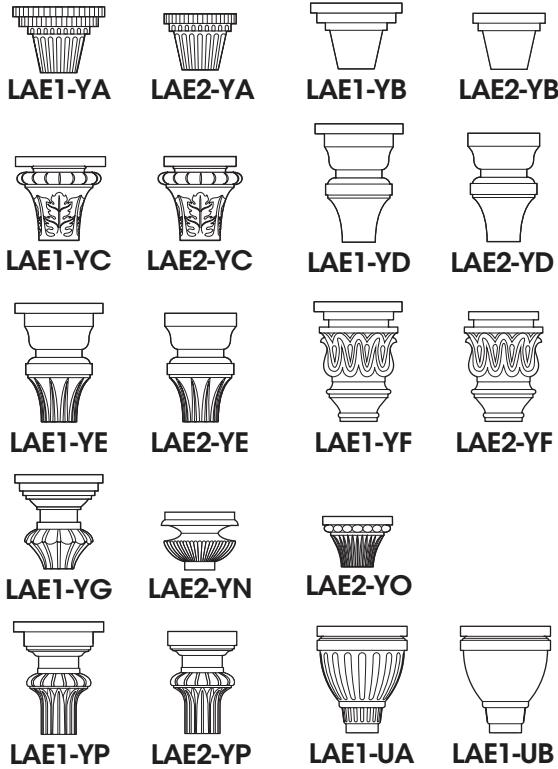


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# LAE SERIES - LED

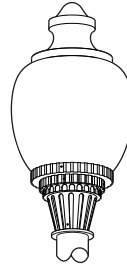
## SPECIFICATIONS

### FITTER OPTIONS



All Fitters Available with Mini-Button Photocells.  
YD, YE, UA, & UB Available with Twist-Lock Photocells.

### EPA & WEIGHT



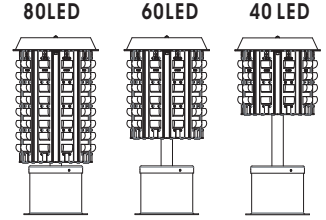
**LAE1**  
Max Weight = 34 lbs  
Max EPA = 2.01  
80 LED Max



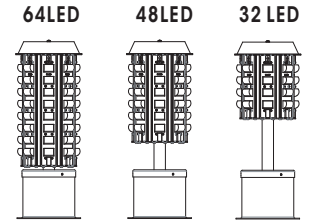
**LAE2**  
Max Weight = 31 lbs  
Max EPA = 1.52  
64 LED Max

### POWER ARRAY™ 2 MODULES

#### POWER ARRAY™ 2 10 Tube Array



#### POWER ARRAY™ 2 8 Tube Array



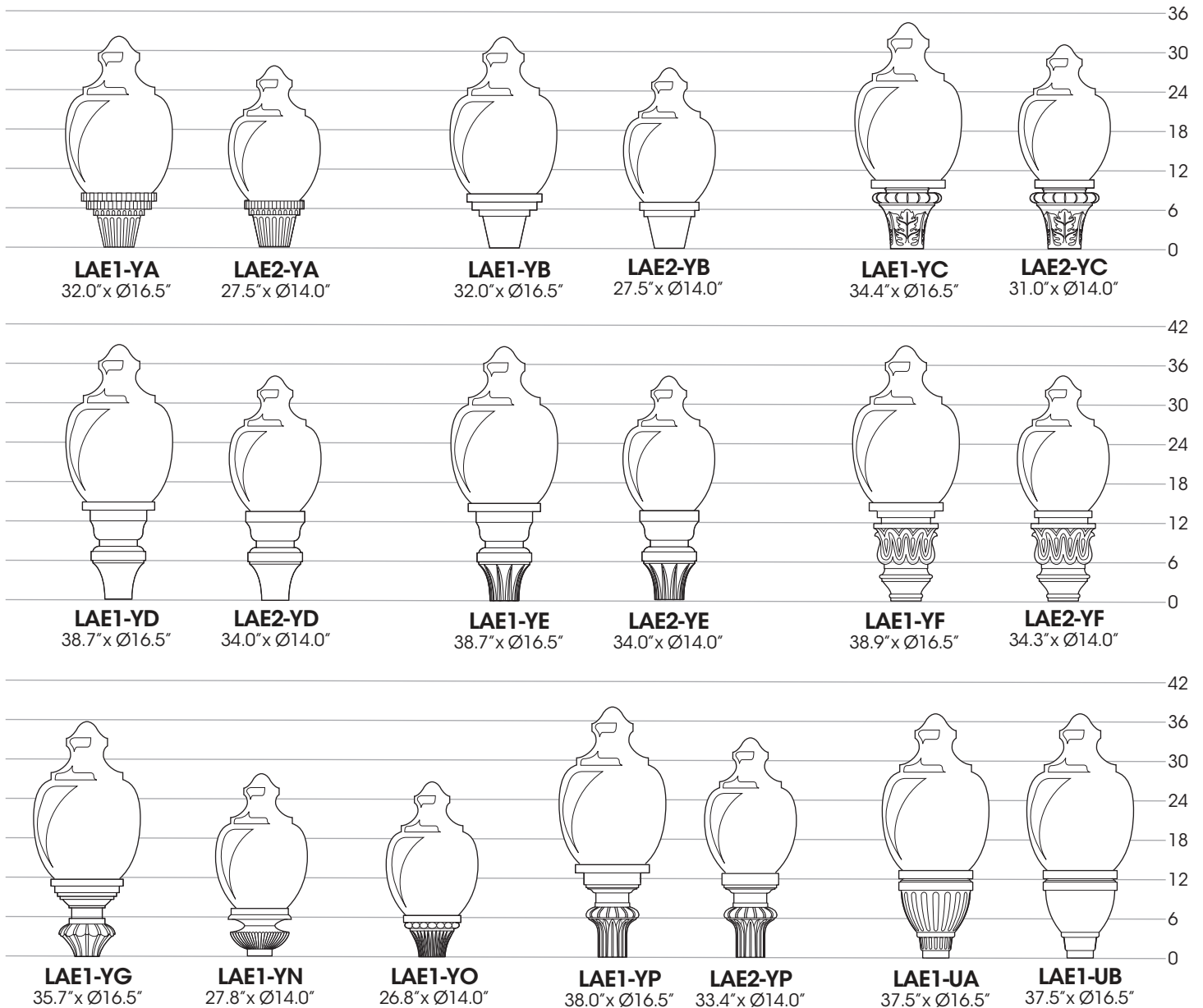
## ORDERING INFORMATION

Spec/Order Example: LAE1-YP/PA2-IV/60LED/525mA/30K/347/PT/RAL-7005-S/CPA/OF

LUMINAIRE-FITTER	OPTICS	# of LED's	DRIVE CURRENT	CCT	VOLTAGE	MOUNTING	FINISH	OPTIONS
Luminaire	Optics	LED			Voltage	Mounting	Finish	Options
<b>LAE1</b> <input type="checkbox"/> LAE1-YA <input type="checkbox"/> LAE1-YB <input type="checkbox"/> LAE1-YC <input type="checkbox"/> LAE1-YD <input type="checkbox"/> LAE1-YE <input type="checkbox"/> LAE1-YF <input type="checkbox"/> LAE1-YG <input type="checkbox"/> LAE1-YP <input type="checkbox"/> LAE1-UA <input type="checkbox"/> LAE1-UB  <b>LAE2</b> <input type="checkbox"/> LAE2-YA <input type="checkbox"/> LAE2-YB <input type="checkbox"/> LAE2-YC <input type="checkbox"/> LAE2-YD <input type="checkbox"/> LAE2-YE <input type="checkbox"/> LAE2-YF <input type="checkbox"/> LAE2-YN <input type="checkbox"/> LAE2-YO <input type="checkbox"/> LAE2-YP	<b>Area &amp; Roadway</b> (CLEAR PATTERNED LENS) <input type="checkbox"/> PA2 - II <input type="checkbox"/> PA2 - III <input type="checkbox"/> PA2 - IV <input type="checkbox"/> PA2 - V  <b>General Diffuse</b> (OPAL PATTERNED LENS) <input type="checkbox"/> PA2- SYM	<b># of LED's</b> <b>LAE1</b> <input type="checkbox"/> 80LED <input type="checkbox"/> 60LED <input type="checkbox"/> 40LED  <b>LAE2</b> <input type="checkbox"/> 64LED <input type="checkbox"/> 48LED <input type="checkbox"/> 32LED	<b>Drive Current</b> <input type="checkbox"/> 350mA <input type="checkbox"/> 525mA <input type="checkbox"/> 700mA	<b>Color Temp-CCT</b> <input type="checkbox"/> 27K (2700K) <input type="checkbox"/> 30K (3000K) <input type="checkbox"/> 40K (4000K) <input type="checkbox"/> 50K (5000K) <input type="checkbox"/> TRA True Amber* Consult Factory for Other LED Color, CCT, & CRI Options	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	<b>Arm Mount</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2-180 <input type="checkbox"/> 2-90 <input type="checkbox"/> 3-90 <input type="checkbox"/> 3-120 <input type="checkbox"/> 4-90  <b>Wall Mount</b> <input type="checkbox"/> WM  <b>Post Top</b> <input type="checkbox"/> PT	<b>Standard Textured Finish</b> <input type="checkbox"/> Black RAL-9005-T <input type="checkbox"/> White RAL-9003-T <input type="checkbox"/> Grey RAL-7004-T <input type="checkbox"/> Dark Bronze RAL-8019-T <input type="checkbox"/> Green RAL-6005-T  For Smooth Finish, Replace Suffix "T" With Suffix "S" Example: RAL-9500-S Consult Factory for Custom Colors	<b>Lens Options:</b> <input type="checkbox"/> Clear Patterned Acrylic (STANDARD GLOBE) <b>CPA</b> <input type="checkbox"/> Opal Patterned Acrylic <b>WA</b>  <input type="checkbox"/> Brass Finial <b>BF</b> <input type="checkbox"/> Ornamental Finial <b>OF</b> <input type="checkbox"/> House Side Shield <b>HS</b>  <input type="checkbox"/> High-Low Dimming for Switch (BY OTHERS) Select 25/100 Or 50/100 (EX HLSW25) <b>HLSW**</b> <input type="checkbox"/> Pole Mounted Bluetooth Photo/Motion Sensor. (Factory 50/100 Motion Photo 75 fc) <b>MS-F311</b> <input type="checkbox"/> Mini-Button Photocell + Voltage <b>PC+V</b> <input type="checkbox"/> Std. Twist Lock Photocell Receptacle <b>TPR</b> <input type="checkbox"/> 7 Pin Twist Lock Photocell Receptacle <b>TPR7</b> <input type="checkbox"/> SINGLE FUSE <b>SF</b> <input type="checkbox"/> DOUBLE FUSE <b>DF</b>
		*TRA Available only in 350mA and 525mA Drive Currents						
		Consult Factory for Other Drive Currents						

# LAE SERIES - LED

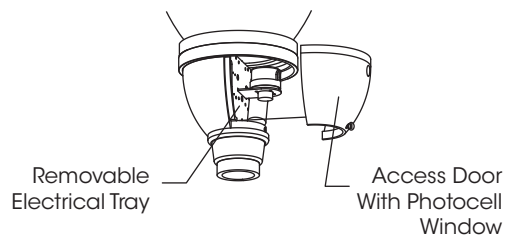
## GLOBE AND FITTER CONFIGURATIONS



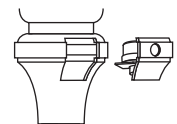
### Notes:

All Fitters Have 3" ID Opening for 2.88" OD Tenon.  
 Standard Tenon Length is 3.0".  
 Stainless Steel Set Screws Provided for Mounting.  
 All Fitters Can Accept Mini-Button Photo Cells.  
 YD, YE, UA, & UB Fitters Can Accept Standard  
 Twist Lock Photo Cells (See Detail).  
 UA & UB Fitters Have a Removable Electrical Tray.

### UA & UB Utility Fitters

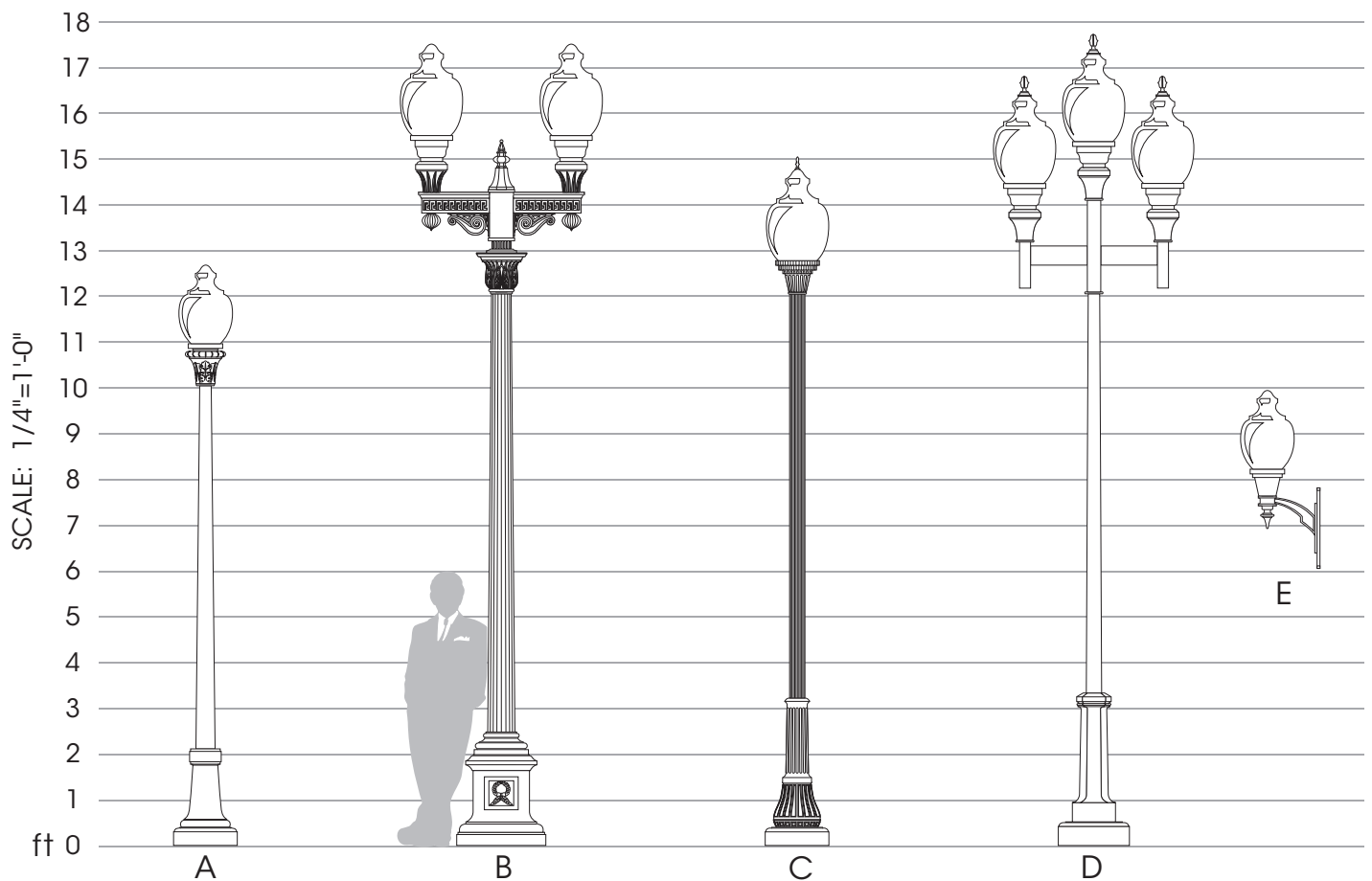


### Twist Lock Photocell Fitters



# LAE SERIES - LED

## SAMPLE ASSEMBLIES

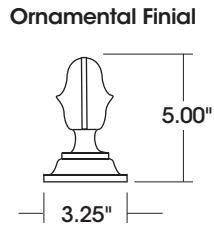
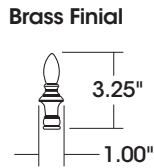


- A. 75-1035T-10'/LAE2-YC-CA-PF/PT/LED/ACCESSORIES/FINISH
- B. 30-1075C-12'/LAE1-YE-CA/XBA-2-180/LED/ACCESSORIES/FINISH
- C. 8-1060-12'/LAE1-YA-CA-BF/PT/LED/ACCESSORIES/FINISH
- D. 11-1030T-12'/LAE1-YD-CA-PF/XAO-3-180/LED/ACCESSORIES/FINISH
- E. WS/LAE1-YB-CA/XAZ-UP-WM/LED/ACCESSORIES/FINISH

Sample Assemblies show a small offering of the Sun Valley Line of Poles, Bases, Shafts, Arms, & Luminaires. Please visit [usaltg.com](http://usaltg.com) for the full product offering.

# LAE SERIES - LED

## OPTIONS



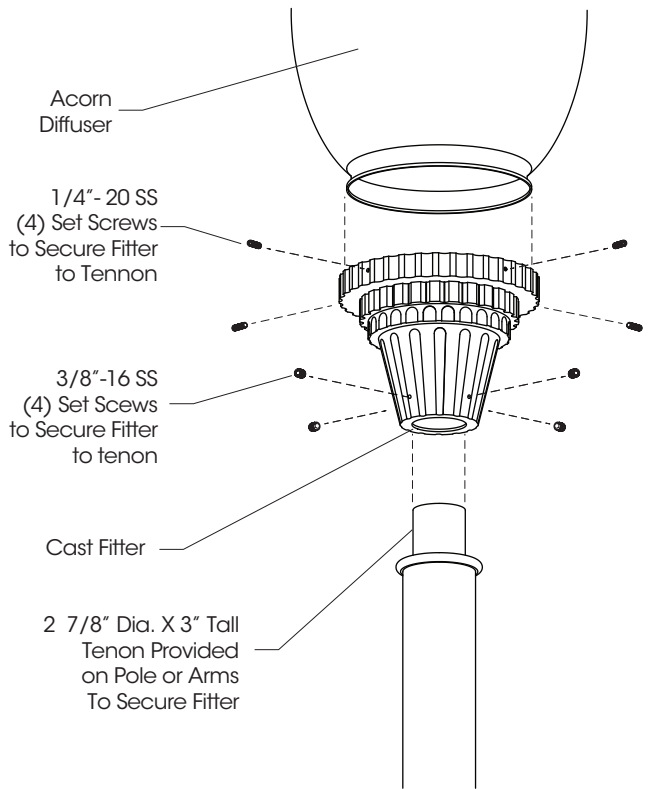
### POLE MOUNTED MFS-311 BLUETOOTH PHOTO/MOTION SENSOR

Factory Settings:  
No Motion - 50%  
Motion - 100%  
Delay - 15 min.  
Photocell - 75fc

Sensors can be Field  
Programmed With  
Bluetooth App

Coupling Provided  
on Pole to Secure  
Motion Sensor.

## INSTALLATION DETAIL



### High Low Dimming For Switches (HLSW)

The HLSW is a Small Electronic Switch which Provides High Low Dimming Control Through the LED Driver's 0-10V Control. Switching is Done by Adding a Secondary AC Switched Hot Trigger Line to the HLSW in Addition to the Normal AC Power Line. When the Secondary Trigger Line is Powered, the Fixture will go to 100% Dimming. With no Power to the Trigger, the Fixture will operate at 50% or 25% Dimming. Switches for the Trigger Line can be a Normal AC Switch/Breaker or Timed Switch/Breaker.

### Wireless and Other Fixture Controls

Contact Factory for Wireless and Other Fixture Controls and Recommendations. Most Controls Can be Integrated and Factory Installed.

## ELECTRICAL DATA GUIDE - AMPERAGE CHARTS

# of LEDs	mA	System Watts	120V	208V	277V	347V	480V
40	350	43	0.36	0.21	0.16	0.12	0.09
40	525	64	0.53	0.31	0.23	0.18	0.13
40	700	86	0.72	0.41	0.31	0.25	0.18
60	350	64	0.53	0.31	0.23	0.18	0.13
60	525	96	0.80	0.46	0.35	0.28	0.20
60	700	129	1.08	0.62	0.47	0.37	0.27
80	350	85	0.71	0.41	0.31	0.24	0.18
80	525	128	1.07	0.62	0.46	0.37	0.27
80	700	171	1.43	0.82	0.62	0.49	0.36

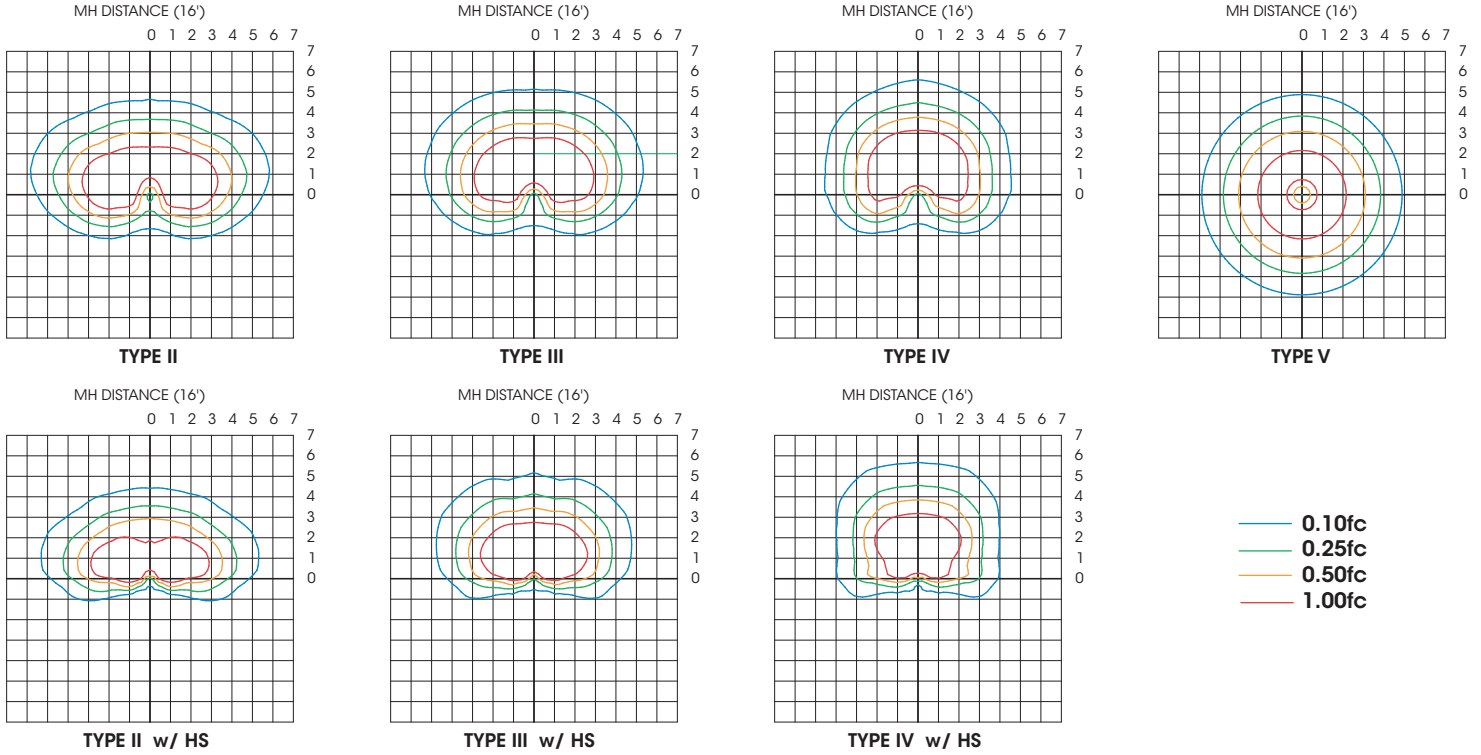
# of LEDs	mA	System Watts	120V	208V	277V	347V	480V
32	350	34	0.28	0.16	0.12	0.10	0.07
32	525	52	0.43	0.25	0.19	0.15	0.11
32	700	69	0.58	0.33	0.25	0.20	0.14
48	350	51	0.43	0.25	0.18	0.15	0.11
48	525	78	0.65	0.38	0.28	0.22	0.16
48	700	104	0.87	0.50	0.38	0.30	0.22
64	350	68	0.57	0.33	0.25	0.20	0.14
64	525	103	0.86	0.50	0.37	0.30	0.21
64	700	138	1.15	0.66	0.50	0.40	0.29

Electrical Loads Above are for High Power White LED's in All Color Temperatures. Use 0.80 Scale factor for TRA LED's. Wattages Above are System Watts or Total Input Watts and include all Electrical Components.

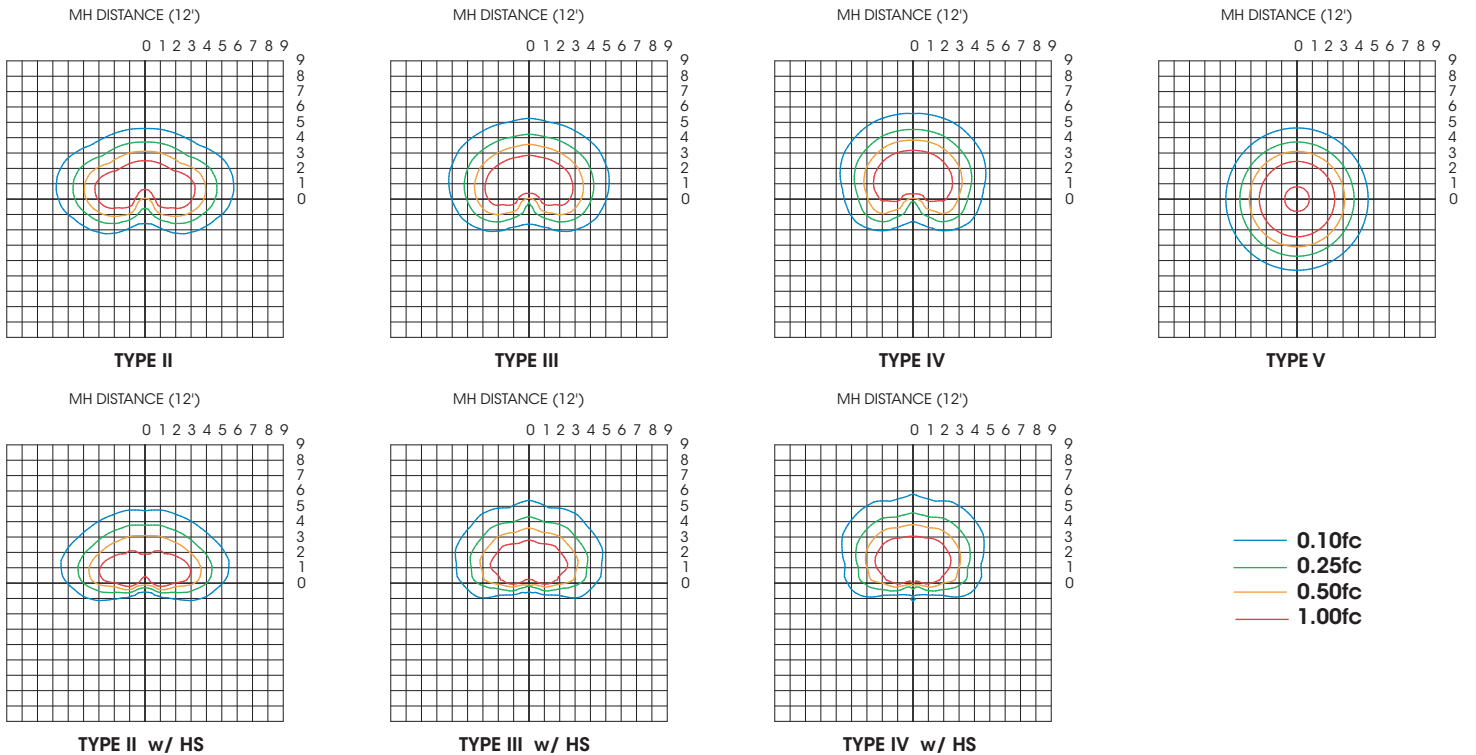
# LAE SERIES - LED

## PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

### LAE1-LED-PA2-CPA-60LED-700mA-4000K - 16' Pole Height



### LAE2-LED-PA2-CPA-32LED-700mA-4000K - 12' Pole Height



# LAE SERIES - LED

## PHOTOMETRIC DATA GUIDE - LUMEN TABLES (LAE1 10 TUBE PA2)

LAE1-PA2-CPA																				
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Waits	TRA (590nm)			
				Lumens	LPW	BUG Rating	Lumens	LPW	BUG Rating	Lumens	LPW	BUG Rating	Lumens	LPW	BUG Rating		Lumens	LPW	BUG Rating	
40	350	43.0	II	5075	118	B2-U3-G3	5478	127	B2-U3-G3	5767	134	B2-U3-G3	6055	141	B2-U3-G3	34.0	1730	51	B1-U3-G2	
			III	4948	115	B1-U3-G3	5341	124	B1-U3-G3	5622	131	B1-U3-G3	5903	137	B2-U3-G3		1687	50	B1-U3-G2	
			IV	4921	114	B1-U3-G4	5312	124	B1-U4-G4	5592	130	B1-U4-G4	5871	137	B1-U4-G4		1678	49	B0-U3-G2	
			V	5153	120	B3-U3-G3	5563	129	B3-U3-G3	5856	136	B3-U3-G3	6148	143	B3-U4-G3		1757	52	B1-U3-G1	
			II-HS	3627	84	B1-U3-G3	3914	91	B1-U3-G3	4121	96	B1-U3-G3	4327	101	B1-U3-G3		1237	36	B0-U3-G2	
			III-HS	4142	96	B1-U3-G3	4470	104	B1-U3-G3	4706	109	B1-U3-G3	4941	115	B1-U3-G3		1412	42	B0-U3-G2	
			IV-HS	4107	96	B1-U3-G3	4433	103	B1-U3-G3	4667	109	B1-U3-G3	4899	114	B1-U3-G3		1400	41	B0-U3-G2	
40	525	64.0	II	7001	109	B2-U4-G4	7558	118	B2-U4-G4	7956	124	B2-U4-G4	8353	131	B3-U4-G4	50.0	2228	45	B1-U3-G2	
			III	6826	107	B3-U4-G4	7368	115	B2-U4-G4	7756	121	B2-U4-G4	8144	127	B2-U4-G4		2172	43	B1-U3-G2	
			IV	6795	106	B1-U4-G4	7335	115	B2-U4-G4	7721	121	B2-U4-G4	8107	127	B2-U4-G4		2162	43	B1-U3-G2	
			V	7109	111	B3-U4-G3	7676	120	B3-U4-G3	8079	126	B3-U4-G3	8482	133	B3-U4-G3		2261	45	B2-U3-G2	
			II-HS	5002	78	B1-U3-G3	5400	84	B1-U3-G3	5685	89	B1-U3-G3	5968	93	B1-U3-G3		1592	32	B0-U3-G2	
			III-HS	5713	89	B1-U3-G3	6168	96	B1-U3-G4	6493	101	B1-U3-G4	6817	107	B1-U3-G4		1818	36	B0-U3-G2	
			IV-HS	5665	89	B1-U3-G3	6115	96	B1-U3-G4	6437	101	B1-U3-G4	6758	106	B1-U3-G4		1802	36	B0-U3-G2	
40	700	86.0	II	8795	102	B3-U4-G4	9495	110	B3-U4-G4	9995	116	B3-U4-G5	10494	122	B3-U4-G5	N/A	N/A			
			III	8575	100	B2-U4-G4	9257	108	B2-U4-G4	9744	113	B2-U4-G5	10231	119	B2-U4-G5					
			IV	8531	99	B2-U4-G4	9209	107	B2-U4-G4	9694	113	B2-U4-G4	10178	118	B2-U4-G4					
			V	8931	104	B3-U4-G4	9640	112	B4-U4-G4	10149	118	B4-U4-G4	10656	124	B4-U4-G4					
			II-HS	6284	73	B1-U3-G4	6784	79	B1-U3-G4	7142	83	B1-U3-G4	7498	87	B1-U4-G4					
			III-HS	7177	83	B1-U4-G4	7748	90	B1-U4-G4	8156	95	B1-U4-G4	8564	100	B1-U4-G4					
			IV-HS	7116	83	B1-U4-G4	7682	89	B1-U4-G4	8087	94	B1-U4-G4	8491	99	B1-U4-G4					
60	350	64.0	II	7612	119	B2-U4-G4	8217	128	B3-U4-G4	8650	135	B3-U4-G4	9082	142	B3-U4-G4	50.0	2596	52	B1-U3-G2	
			III	7421	116	B2-U4-G4	8011	125	B2-U4-G4	8434	132	B2-U4-G4	8855	138	B2-U4-G4		2531	51	B1-U3-G2	
			IV	7381	115	B1-U4-G5	7968	124	B2-U4-G5	8388	131	B2-U4-G5	8807	138	B2-U4-G5		2517	50	B1-U3-G3	
			V	7730	121	B3-U4-G3	8344	130	B3-U4-G3	8784	137	B3-U4-G3	9222	144	B3-U4-G4		2636	53	B2-U3-G2	
			II-HS	5440	85	B1-U3-G3	5872	92	B1-U3-G3	6181	97	B1-U3-G4	6490	101	B1-U3-G4		1855	37	B0-U3-G2	
			III-HS	6212	97	B1-U3-G4	6706	105	B1-U3-G4	7059	110	B1-U4-G4	7412	116	B1-U4-G4		2118	42	B0-U3-G2	
			IV-HS	6159	96	B1-U3-G4	6649	104	B1-U3-G4	6999	109	B1-U4-G4	7349	115	B1-U4-G4		2100	42	B0-U3-G2	
60	525	96.0	II	10502	109	B3-U4-G5	11337	118	B3-U4-G5	11934	124	B3-U4-G5	12530	131	B3-U5-G5	75.0	3341	45	B1-U3-G3	
			III	10238	107	B2-U4-G5	11052	115	B2-U4-G5	11635	121	B3-U4-G5	12216	127	B3-U5-G5		3258	43	B1-U3-G3	
			IV	10192	106	B2-U4-G5	11002	115	B2-U5-G5	11582	121	B2-U5-G5	12161	127	B2-U5-G5		3243	43	B1-U3-G3	
			V	10664	111	B4-U4-G4	11512	120	B4-U4-G4	12118	126	B4-U5-G4	12724	133	B4-U5-G4		3392	45	B2-U3-G2	
			II-HS	7505	78	B1-U4-G4	8101	84	B1-U4-G4	8528	89	B1-U4-G4	8954	93	B1-U4-G4		2388	32	B1-U3-G2	
			III-HS	8570	89	B1-U4-G4	9252	96	B1-U4-G5	9739	101	B1-U4-G5	10225	107	B1-U4-G5		2727	36	B0-U3-G3	
			IV-HS	8497	89	B1-U4-G4	9173	96	B1-U4-G5	9656	101	B1-U4-G5	10139	106	B1-U4-G5		2704	36	B0-U3-G3	
60	700	129.0	II	13193	102	B3-U5-G5	14242	110	B3-U5-G5	14992	116	B3-U5-G5	15742	122	B3-U5-G5	N/A	N/A			
			III	12862	100	B3-U5-G5	13885	108	B3-U5-G5	14616	113	B3-U5-G5	15347	119	B3-U5-G5					
			IV	12796	99	B2-U5-G5	13813	107	B3-U5-G5	14541	113	B3-U5-G5	15268	118	B3-U5-G5					
			V	13397	104	B4-U5-G5	14462	112	B4-U5-G5	15224	118	B4-U5-G5	15986	124	B4-U5-G5					
			II-HS	9427	73	B1-U4-G5	10177	79	B1-U4-G5	10713	83	B2-U4-G5	11248	87	B2-U4-G5					
			III-HS	10766	83	B1-U4-G5	11623	90	B1-U4-G5	12234	95	B1-U4-G5	12846	100	B1-U4-G5					
			IV-HS	10675	83	B1-U4-G5	11524	89	B1-U4-G5	12131	94	B1-U4-G5	12737	99	B1-U4-G5					
80	350	85.0	II	10150	119	B3-U4-G5	10957	129	B3-U4-G5	11534	136	B3-U4-G5	12110	142	B3-U4-G5	66.0	3461	52	B1-U3-G3	
			III	9895	116	B2-U4-G5	10682	126	B2-U4-G5	11245	132	B2-U4-G5	11807	139	B3-U4-G5		3374	51	B1-U3-G3	
			IV	9842	116	B2-U4-G5	10625	125	B2-U5-G5	11184	132	B2-U5-G5	11743	138	B2-U5-G5		3355	51	B1-U3-G3	
			V	10307	121	B4-U4-G4	11126	131	B4-U4-G4	11712	138	B4-U4-G4	12298	145	B4-U5-G4		3514	53	B2-U3-G2	
			II-HS	7253	85	B1-U3-G4	7829	92	B1-U4-G4	8242	97	B1-U4-G4	8654	102	B1-U4-G4		2473	37	B1-U3-G2	
			III-HS	8283	97	B1-U4-G4	8942	105	B1-U4-G4	9413	111	B1-U4-G5	9883	116	B1-U4-G5		2824	43	B0-U3-G3	
			IV-HS	8213	97	B1-U4-G4	8866	104	B1-U4-G5	9333	110	B1-U4-G5	9799	115	B1-U4-G5		2800	42	B0-U3-G3	
80	525	128.0	II	14002	109	B3-U5-G5	15116	118	B3-U5-G5	15912	124	B3-U5-G5	16707	131	B3-U5-G5	100.0	4455	45	B2-U3-G3	
			III	13651	107	B3-U5-G5	14737	115	B3-U5-G5	15513	121	B3-U5-G5	16288	127	B3-U5-G5		4344	43	B1-U3-G3	
			IV	13589	106	B2-U5-G5	14670	115	B3-U5-G5	15442	121	B3-U5-G5	16214	127	B3-U5-G5		4324	43	B1-U3-G3	
			V	14218	111	B4-U5-G5	15349	120	B4-U5-G5	16158	126	B4-U5-G5	16966	133	B4-U5-G5		4525	45	B3-U3-G3	
			II-HS	10006	78	B1-U4-G5	10802	84	B2-U4-G5	11370	89	B2-U4-G5	11938	93	B2-U4-G5		3184	32	B1-U3-G3	
			III-HS	11427	89	B1-U4-G5	12336	96	B1-U4-G5	12985	101	B1-U4-G5	13634	107	B1-U4-G5		3636	36	B1-U3-G3	
			IV-HS	11330	89	B1-U4-G5	12231	96	B1-U4-G5	12875	101	B1-U4-G5	13518	106	B1-U4-G5		3605	36	B0-U3-G3	
80	700	171.0	II	17591	103	B3-U5-G5	18990	111	B3-U5-G5	19990	117	B3-U5-G5	20989	123	B4-U5-G5	N/A	N/A			
			III	17150	100	B3-U5-G5	18514	108	B3-U5-G5	19488	114	B3-U5-G5	20463	120	B3-U5-G5					
			IV	17061	100	B3-U5-G5	18418	108	B3-U5-G5	19388	113	B3-U5-G5	20357	119	B3-U5-G5					
			V	17863	104	B4-U5-G5	19283	113	B5-U5-G5	20298	119	B5-U5-G5	21314	125	B5-U5-G5					
			II-HS	12570	74	B2-U4-G5	13569	79	B2-U4-G5	14284	84	B2-U4-G5	14998	88	B2-U5-G5					
			III-HS	14355	84	B1-U5-G5	15497	91	B1-U5-G5	16313	95	B2-U5-G5	17128	100	B2-U5-G5					
			IV-HS	14233	83	B1-U5-G5	15365	90	B1-U5-G5	16174	95	B1-U5-G5	16982	99	B1-U5-G5					

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## PHOTOMETRIC DATA GUIDE - LM-80 LUMEN MAINTENANCE

LED Life / Operating Hours	Lumen Depreciation	Lumen Depreciation Scale Factor
60,000 (10x Test Time Calculated)	L94	0.94x
100,000 (Theoretical Calculated)	L92	0.92x
150,000 (Theoretical Calculated)	L89	0.89x

Lumen Depreciation Calculations Done in Accordance With IESNA TM-21 & LM-80 (25°C Ambient)  
 TM-21 6x Test Time Dictates that L94 > 60,000 Hours.

# LAE SERIES - LED

## PHOTOMETRIC DATA GUIDE - LUMEN TABLES (LAE2 8 TUBE PA2)

LAE2-PA2-CPA																				
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)			
				Lumens	LPW	BUG Rating	Lumens	LPW	BUG Rating	Lumens	LPW	BUG Rating	Lumens	LPW	BUG Rating		Lumens	LPW	BUG Rating	
32	350	34.0	II	4066	120	B2-U3-G3	4389	129	B2-U3-G3	4621	136	B2-U3-G3	4851	143	B2-U3-G3	27.0	1386	51	B1-U3-G2	
			III	4043	119	B1-U3-G3	4364	128	B1-U3-G3	4595	135	B1-U3-G3	4824	142	B1-U3-G3		1379	51	B1-U3-G2	
			IV	4036	119	B1-U3-G3	4357	128	B1-U3-G3	4587	135	B1-U3-G3	4816	142	B1-U3-G3		1376	51	B1-U3-G2	
			V	4125	121	B3-U3-G2	4453	131	B3-U3-G2	4688	138	B3-U3-G2	4922	145	B3-U3-G2		1407	52	B1-U3-G1	
			II-HS	3257	96	B1-U3-G3	3515	103	B1-U3-G3	3701	109	B1-U3-G3	3886	114	B1-U3-G3		1111	41	B0-U3-G1	
			III-HS	3184	94	B1-U3-G3	3437	101	B1-U3-G3	3619	106	B1-U3-G3	3799	112	B1-U3-G3		1086	40	B0-U3-G1	
			IV-HS	3745	110	B1-U3-G3	4043	119	B1-U3-G3	4256	125	B1-U3-G3	4469	131	B1-U3-G3		1277	47	B0-U3-G2	
32	525	52.0	II	5610	108	B2-U3-G3	6055	116	B2-U3-G3	6375	123	B2-U4-G3	6693	129	B2-U4-G3	41.0	1785	44	B1-U3-G2	
			III	5578	107	B2-U4-G3	6021	116	B2-U4-G3	6338	122	B2-U4-G3	6655	128	B2-U4-G3		1775	43	B1-U3-G2	
			IV	5569	107	B1-U3-G3	6011	116	B1-U3-G3	6328	122	B2-U4-G3	6644	128	B2-U4-G4		1772	43	B1-U3-G2	
			V	5692	109	B3-U3-G3	6145	118	B3-U3-G3	6468	124	B3-U3-G3	6792	131	B3-U4-G3		1811	44	B2-U3-G1	
			II-HS	4493	86	B1-U3-G3	4850	93	B1-U3-G3	5105	98	B1-U3-G3	5360	103	B1-U3-G3		1429	35	B0-U3-G2	
			III-HS	4392	84	B1-U3-G3	4741	91	B1-U3-G3	4991	96	B1-U3-G3	5240	101	B1-U3-G3		1398	34	B0-U3-G2	
			IV-HS	5166	99	B1-U3-G3	5577	107	B1-U3-G3	5871	113	B1-U3-G4	6164	119	B1-U3-G4		1644	40	B0-U3-G2	
32	700	69.0	II	7047	102	B2-U4-G4	7608	110	B2-U4-G4	8008	116	B3-U4-G4	8408	122	B3-U4-G4	N/A	N/A	N/A	N/A	
			III	7007	102	B2-U4-G4	7564	110	B2-U4-G4	7963	115	B2-U4-G4	8360	121	B2-U4-G4					
			IV	6996	101	B2-U4-G4	7552	109	B2-U4-G4	7950	115	B2-U4-G4	8347	121	B2-U4-G4					
			V	7152	104	B3-U4-G3	7720	112	B3-U4-G3	8127	118	B3-U4-G3	8533	124	B3-U4-G3					
			II-HS	5645	82	B1-U3-G3	6093	88	B1-U3-G4	6414	93	B1-U3-G4	6734	98	B1-U3-G4					
			III-HS	5519	80	B1-U3-G3	5957	86	B1-U3-G3	6271	91	B1-U3-G4	6584	95	B1-U3-G4					
			IV-HS	6490	94	B1-U3-G4	7006	102	B1-U4-G4	7376	107	B1-U4-G4	7744	112	B1-U4-G4					
48	350	51.0	II	6100	120	B2-U3-G3	6584	129	B2-U4-G3	6931	136	B2-U4-G4	7278	143	B2-U4-G4	40.0	2080	52	B1-U3-G2	
			III	6065	119	B2-U4-G3	6547	128	B2-U4-G3	6892	135	B2-U4-G4	7236	142	B2-U4-G4		2068	52	B1-U3-G2	
			IV	6055	119	B1-U3-G3	6536	128	B2-U4-G3	6881	135	B2-U4-G4	7224	142	B2-U4-G4		2065	52	B1-U3-G2	
			V	6190	121	B3-U3-G3	6682	131	B3-U4-G3	7034	138	B3-U4-G3	7384	145	B3-U4-G3		2110	53	B2-U3-G1	
			II-HS	4885	96	B1-U3-G3	5274	103	B1-U3-G3	5552	109	B1-U3-G3	5829	114	B1-U3-G3		1666	42	B0-U3-G2	
			III-HS	4776	94	B1-U3-G3	5156	101	B1-U3-G3	5428	106	B1-U3-G3	5699	112	B1-U3-G3		1629	41	B0-U3-G2	
			IV-HS	5617	110	B1-U3-G3	6064	119	B1-U3-G4	6383	125	B1-U3-G4	6702	131	B1-U3-G4		1916	48	B0-U3-G2	
48	525	78.0	II	8414	108	B3-U4-G4	9083	116	B3-U4-G4	9562	123	B3-U4-G4	10039	129	B3-U4-G4	61.0	2677	44	B1-U3-G2	
			III	8367	107	B2-U4-G4	9032	116	B2-U4-G4	9508	122	B2-U4-G4	9982	128	B3-U4-G4		2662	44	B1-U3-G2	
			IV	8353	107	B2-U4-G4	9017	116	B2-U4-G4	9492	122	B2-U4-G4	9966	128	B2-U4-G5		2658	44	B1-U3-G2	
			V	8539	109	B3-U4-G3	9216	118	B4-U4-G3	9702	124	B4-U4-G3	10188	131	B4-U4-G3		2717	45	B2-U3-G2	
			II-HS	6739	86	B1-U3-G4	7275	93	B1-U4-G4	7658	98	B1-U4-G4	8041	103	B1-U4-G4		2144	35	B1-U3-G2	
			III-HS	6589	84	B1-U3-G4	7113	91	B1-U3-G4	7487	96	B1-U4-G4	7861	101	B1-U4-G4		2096	34	B0-U3-G2	
			IV-HS	7749	99	B1-U4-G4	8366	107	B1-U4-G4	8806	113	B1-U4-G5	9246	119	B1-U4-G5		2466	40	B0-U3-G2	
48	700	104.0	II	10571	102	B3-U4-G5	11412	110	B3-U4-G5	12012	116	B3-U4-G5	12613	121	B3-U5-G5	N/A	N/A	N/A	N/A	
			III	10511	101	B3-U4-G5	11346	109	B3-U4-G5	11944	115	B3-U4-G5	12541	121	B3-U5-G5					
			IV	10493	101	B2-U4-G5	11328	109	B2-U4-G5	11924	115	B2-U4-G5	12520	120	B3-U4-G5					
			V	10725	103	B4-U4-G3	11578	111	B4-U4-G4	12188	117	B4-U4-G4	12797	123	B4-U4-G4					
			II-HS	8467	81	B1-U4-G4	9140	88	B1-U4-G5	9622	93	B1-U4-G5	10102	97	B2-U4-G5					
			III-HS	8278	80	B1-U4-G4	8936	86	B1-U4-G4	9406	90	B1-U4-G5	9876	95	B1-U4-G5					
			IV-HS	9736	94	B1-U4-G5	10510	101	B1-U4-G5	11063	106	B1-U4-G5	11616	112	B1-U4-G5					
64	350	68.0	II	8132	120	B3-U4-G4	8779	129	B3-U4-G4	9241	136	B3-U4-G4	9703	143	B3-U4-G4	53.0	2773	52	B1-U3-G2	
			III	8086	119	B2-U4-G4	8729	128	B2-U4-G4	9189	135	B2-U4-G4	9648	142	B2-U4-G4		2757	52	B1-U3-G2	
			IV	8073	119	B2-U4-G4	8715	128	B2-U4-G4	9174	135	B2-U4-G4	9632	142	B2-U4-G4		2753	52	B1-U3-G2	
			V	8251	121	B3-U4-G3	8908	131	B4-U4-G3	9377	138	B4-U4-G3	9845	145	B4-U4-G3		2814	53	B2-U3-G2	
			II-HS	6514	96	B1-U3-G4	7032	103	B1-U4-G4	7402	109	B1-U4-G4	7772	114	B1-U4-G4		2221	42	B1-U3-G2	
			III-HS	6368	94	B1-U3-G4	6874	101	B1-U3-G4	7237	106	B1-U3-G4	7598	112	B1-U4-G4		2171	41	B0-U3-G2	
			IV-HS	7490	110	B1-U4-G4	8085	119	B1-U4-G4	8511	125	B1-U4-G4	8937	131	B1-U4-G5		2554	48	B0-U3-G2	
64	525	103.0	II	11219	109	B3-U4-G5	12111	118	B3-U4-G5	12749	124	B3-U5-G5	13386	130	B3-U5-G5	81.0	3570	44	B1-U3-G3	
			III	11155	108	B3-U4-G5	12042	117	B3-U5-G5	12677	123	B3-U5-G5	13310	129	B3-U5-G5		3549	44	B1-U3-G3	
			IV	11137	108	B2-U4-G5	12023	117	B2-U4-G5	12656	123	B3-U5-G5	13288	129	B3-U5-G5		3544	44	B1-U3-G3	
			V	11384	111	B4-U4-G4	12290	119	B4-U4-G4	12937	126	B4-U4-G4	13583	132	B4-U5-G4		3623	45	B3-U3-G2	
			II-HS	8986	87	B1-U4-G4	9700	94	B2-U4-G5	10211	99	B2-U4-G5	10722	104	B2-U4-G5		2859	35	B1-U3-G3	
			III-HS	8785	85	B1-U4-G4	9483	92	B1-U4-G5	9983	97	B1-U4-G5	10482	102	B1-U4-G5		2795	35	B0-U3-G3	
			IV-HS	10333	100	B1-U4-G5	11154	108	B1-U4-G5	11742	114	B1-U4-G5	12329	120	B1-U4-G5		3288	41	B0-U3-G3	
64	700	138.0	II	14095	102	B3-U5-G5	15216	110	B3-U5-G5	16016	116	B3-U5-G5	16817	122	B3-U5-G5	N/A	N/A	N/A	N/A	
			III	14014	102	B3-U5-G5	15129	110	B3-U5-G5	15925	115	B3-U5-G5	16722	121	B3-U5-G5					
			IV	13991	101	B3-U5-G5	15104	109	B3-U5-G5	15899	115	B3-U5-G5	16694	121	B3-U5-G5					
			V	14301	104	B4-U5-G4	15438	112	B4-U5-G4	16251	118	B4-U5-G4	17065	124	B4-U5-G5					
			II-HS	11289	82	B2-U4-G5	12187	88	B2-U4-G5	12828	93	B2-U4-G5	13470	98	B2-U4-G5					
			III-HS	11037	80	B1-U4-G5	11914	86	B1-U4-G5	12542	91	B1-U4-G5	13169	95	B1-U4-G5					
			IV-HS	12981	94	B1-U4-G5	14013	102	B1-U5-G5	14751	107	B1-U5-G5	15488	112	B1-U5-G5					

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