

Model Specified (Per Specification Worksheet Below)

Quantity: _____
Job Name: _____
Job Location - City/State: _____

Notes: _____

Type: _____

Date: _____

SPECIFICATIONS

Pole - Stress rated laminated Alaskan yellow cedar or preservative treated southern yellow pine bonded with durable moisture-resistant adhesives in conformance with ANSI A190.1 Standard for Wood Products –Structural Glued Laminated Timber under American Institute of Timber Construction (AITC). Design based on AASHTO LRFDLTS-1 using wind pressures derived from ASCE 7-10 and ASCE 7-16 using an Importance Factor of 1.0 and Wind Exposure C. EPAs are applicable for IBC 2015, 2018 and 2021

Section Size & Length – Available section sizes: 5" x 5-1/2", 6-3/4" x 6-3/4", and 8-1/2" x 8-1/4". Lengths are available in 1' increments.

Center Wire Raceway – Poles possess a 1" x 1-1/4" center wire raceway.

Pole Top Options – Specify MC tenon tops available with 2-3/8" or 3" O.D. cylinders for top mount applications. Specify PC protective caps for side mount applications. Pilot holes and through bolt holes can be supplied pre-drilled with a submitted template.

Side Mount Options – Custom steel cross arms up to 24" long can be available to support horizontal & vertical fixture mounting configurations.

Foundation Installation – Specify BP base plates for foundation installation. AC cover skirts and fasteners are included. Base plates and cover skirts are laser cut steel powder coated flat black. Anchor bolts are supplied by others (see diagrams below for anchor bolt specification).

Direct Embedment Installation – Refer to species durability testing data and installation suggestions and embedment recommendation tables at www.EroVista.net.

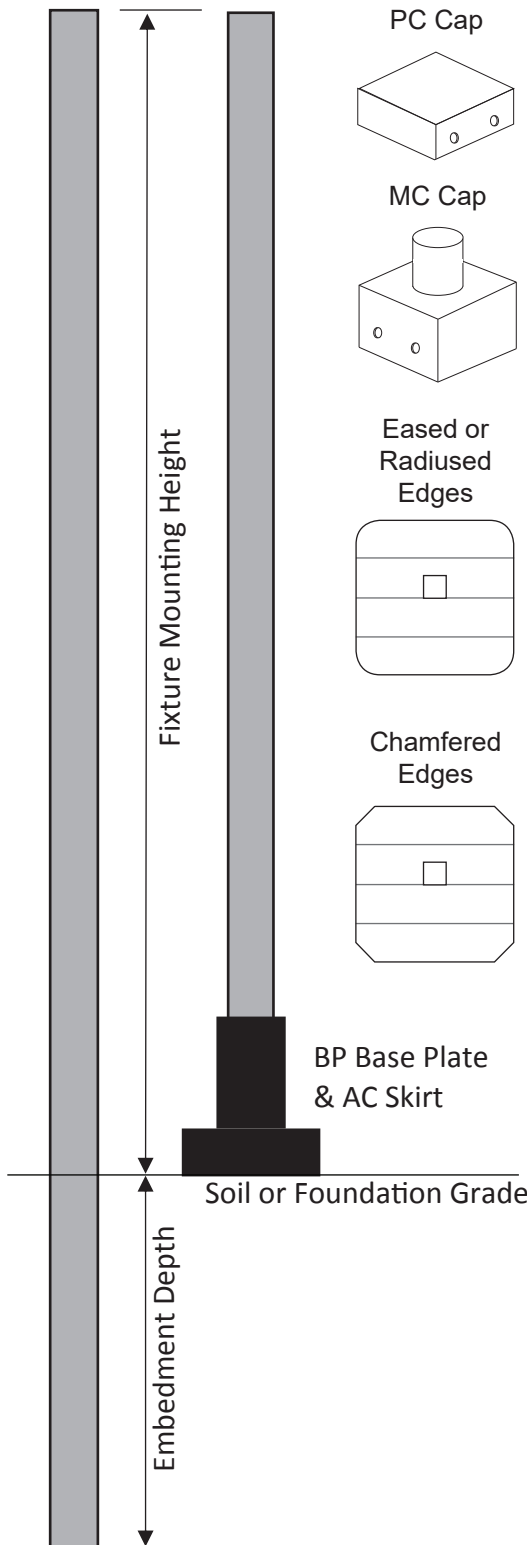
Surface Texture – Specify smooth or rough sawn texture.

Fabrication Styles – Specify eased, radiused or chamfered edge options.

Factory Staining – Poles can be factory stained with Sherwin-Williams® SuperDeck® semi-transparent stains, or can be painted or stained in the field to achieved desired color.

Packaging – Poles are job lot paper wrapped or can be individually paper wrapped.

Design Criteria – Reference selection tables and embedment depth recommendation tables at www.EroVista.net.



Weight Per Lineal Foot		
Pole Size	Alaskan Yellow Cedar	Southern Yellow Pine
5" x 5-1/2"	6 lbs.	7.5 lbs.
6-3/4" x 6-3/4"	10 lbs.	12.5 lbs.
8-1/2" x 8-1/4"	16 lbs.	19 lbs.

EroVista Commercial Series Specification Logic

Product	Section Size	Length	Texture	Fabrication	Stain Option	Top Cap	Base Plate & AC Skirt	Paper Wrap
C	55	16	S	E	X	MC55.2	BP55	J
C = Alaskan Yellow Cedar SYP = Southern Yellow Pine	55 = 5" x 5-1/2" 66 = 6-3/4" x 6-3/4" 88 = 8-1/2" x 8-1/4"	Overall Length	S = Smooth ¹ R = Rough	E = 1/4" eased edges ¹ H = 1/2" Radiused edges C = 1" Chamfered edges P = 1" Partial chamfered	X = No stain ¹ SW _____ ⁴	PC55 ² PC66 ² PC88 ² MC55.2 or .3 ³ MC66.2 or .3 ³ MC88.2 or .3 ³	N = None BP55 ⁵ BP66 ⁵ BP88 ⁵ BP55-H ⁵ BP66-H ⁵ BP88-H ⁵	J = Job lot ¹ I = Individual

¹ Standard price. Additional pricing applies to other options.

² Metal protective cap

³ Metal tenon top mounts – indicate a .2 for a 2-3/8" tenon or .3 for a 3" tenon

⁴ SW _____ Indicates Sherwin-Williams® SuperDeck® semi-transparent stain color

⁵ AC skirts are included with base plates to conceal anchor bolts

The above commercial light standard specification indicates C-55-16-S-E-X-MC55.2-BP55-J

Alaskan Yellow Cedar - 5"x5-1/2"x16'-smooth texture - eased edges - no stain - 2-3/8" tenon cap - individually paper wrapped)

EroVista Specification Worksheet

Product	Section Size	Length	Texture	Fabrication	Stain Option	Top Cap	Base Plate	Paper Wrap

EroVista Base Plate Installation Details

EroVista C55 POLE BASE PLATES

MAXIMUM DESIGN LOADS

- VERTICAL: 500 LB (DL)
- SHEAR: 1,000 LB (WL)
- MOMENT: 5,000 FT-LB (WL)
- MAXIMUM BOLT PULL-OUT: 2,500 LB (WL)

FIELD DRILL 1/4" X 1" LEAD HOLES FOR 3/8" X 2" SS LAG SCREWS

BP55 BP55-H

3/4" ALL THREAD

PIER DESIGN BY OTHERS

1'-0" 4" Ø HOLE 1 1/2" BOLT CIRCLE

EroVista C66 POLE BASE PLATES

MAXIMUM DESIGN LOADS

- VERTICAL: 500 LB (DL)
- SHEAR: 1,500 LB (WL)
- MOMENT: 10,000 FT-LB (WL)
- MAXIMUM BOLT PULL-OUT: 4,000 LB (WL)

FIELD DRILL 1/4" X 1" LEAD HOLES FOR 3/8" X 2" SS LAG SCREWS

BP66 BP66-H

3/4" ALL THREAD

PIER DESIGN BY OTHERS

1'-10" 4" Ø HOLE 1 1/2" BOLT CIRCLE

EroVista C88 POLE BASE PLATES

MAXIMUM DESIGN LOADS

- VERTICAL: 700 LB (DL)
- SHEAR: 2,200 LB (WL)
- MOMENT: 17,000 FT-LB (WL)
- MAXIMUM BOLT PULL-OUT: 6,000 LB (WL)

FIELD DRILL 1/4" X 1" LEAD HOLES FOR 3/8" X 2" SS LAG SCREWS

BP88 BP88-H

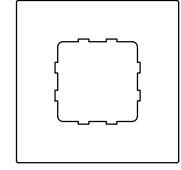
1" ALL THREAD

PIER DESIGN BY OTHERS

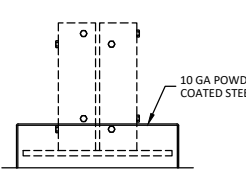
1'-2" 4" Ø HOLE 1 1/2" BOLT CIRCLE

EroVista Base Plate Skirts

AC55 - 5" x 5-1/2" BASE PLATE SKIRT
AC66 - 6-3/4" x 6-3/4" BASE PLATE SKIRT
AC88 - 8-1/2" x 8-1/4" BASE PLATE SKIRT



AC skirt placed over BP base plate prior to inserting pole



10 GA POWDER COATED STEEL

Maximum Combined EPA Table - Base Mount

Fixture Configuration	EroVista Pole Size	Pole Height (ft)	Alaskan Yellow Cedar Poles Maximum Fixture EPA (ft ²)						Southern Yellow Pine Poles Maximum Fixture EPA (ft ²)						
			Wind Speed (mph)						Wind Speed (mph)						
			115	120	130	140	150	160	115	120	130	140	150	160	
	5" x 5-1/2"	8	19.30	17.54	14.61	12.28	10.40	8.87	28.46	25.97	21.82	18.52	15.86	13.68	
		10	14.31	12.91	10.54	8.50	6.86	5.51	21.67	19.69	16.38	13.76	11.65	9.90	
		12	10.53	9.25	7.13	5.44	4.08	2.97	16.93	15.29	12.56	10.23	8.30	6.73	
		14	7.16	6.08	4.30	2.89	1.75	0.81	13.08	11.56	9.04	7.04	5.42	4.09	
		16	4.26	3.36	1.85	0.66			9.40	8.12	5.99	4.29	2.93	1.81	
		18	1.80	1.03					6.35	5.26	3.42	1.98	0.81		
		20							3.73	2.78	1.20				
		22							0.80						
	6-3/4" x 6-3/4"	8	45.91	41.92	35.28	30.01	25.76	22.27	62.59	57.24	48.33	41.25	35.56	30.89	
		10	35.25	32.07	26.77	22.57	19.01	16.06	48.55	44.29	37.19	31.55	27.00	23.28	
		12	27.85	25.15	20.48	16.78	13.80	11.36	38.93	35.38	29.48	24.71	20.70	17.42	
		14	21.47	19.11	15.19	12.07	9.55	7.49	31.36	28.22	22.95	18.76	15.38	12.61	
		16	16.03	14.03	10.70	8.05	5.92	4.17	24.49	21.80	17.31	13.76	10.88	8.54	
		18	11.56	9.84	6.96	4.69	2.85	1.35	18.89	16.57	12.70	9.63	7.16	5.13	
		20	7.75	6.25	3.76	1.78			14.18	12.16	8.79	6.11	3.96	2.19	
		22	4.44	3.12	0.93				10.14	8.36	5.39	3.04	1.15		
	8-1/2" x 8-1/4"	24	1.62						6.78	5.19	2.53				
		26							3.57	2.15					
		28							0.80						
		8	90.12	82.45	69.66	59.50	51.32	44.61	122.02	111.73	94.59	80.98	70.02	61.04	
		10	70.12	63.99	53.78	45.67	39.14	33.79	95.55	87.34	73.65	62.80	54.04	46.86	
		12	56.40	51.31	42.82	35.96	30.31	25.69	77.51	70.70	59.32	50.28	43.00	36.91	
		14	45.65	41.16	33.72	27.81	23.04	19.13	63.49	57.70	48.09	40.21	33.80	28.56	
		16	36.16	32.36	26.01	20.98	16.92	13.60	51.87	46.76	38.26	31.50	26.04	21.59	
		5" x 5-1/2"	18	28.50	25.21	19.73	15.39	11.88	9.01	42.06	37.65	30.28	24.45	19.72	15.87
			20	22.05	19.17	14.40	10.61	7.55	5.04	33.97	30.09	23.65	18.54	14.41	11.03
22			16.31	13.80	9.62	6.31	3.63	1.44	27.07	23.66	17.96	13.45	9.80	6.82	
24			11.62	9.39	5.67	2.72			21.41	18.34	13.23	9.18	5.92	3.25	
26			7.20	5.22	1.92				16.04	13.29	8.74	5.12	2.21		
28			3.45	1.66					11.55	9.07	4.94	1.66			
30									7.19	4.96	1.24				
8			6.93	6.36	5.42	4.68	4.07	3.58	7.83	7.20	6.13	5.29	4.61	4.05	
6-3/4" x 6-3/4"		10	6.93	6.36	5.42	4.68	4.07	3.58	7.83	7.20	6.13	5.29	4.61	4.05	
		12	6.93	6.36	5.42	4.68	3.90	2.81	7.83	7.20	6.13	5.29	4.61	4.05	
		14	6.85	5.84	4.10	2.71	1.59	0.68	7.74	7.11	6.06	5.23	4.55	3.95	
		16	4.04	3.15	1.68	0.51			7.57	6.95	5.81	4.14	2.80	1.70	
		18	1.61	0.85					6.15	5.08	3.27	1.84	0.69		
		20							3.55	2.62	1.07				
		8	14.97	13.75	11.72	10.10	8.80	7.74	16.92	15.54	13.25	11.42	9.95	8.74	
		10	14.97	13.75	11.72	10.10	8.80	7.74	16.92	15.54	13.25	11.42	9.95	8.74	
8-1/2" x 8-1/4"		12	14.97	13.75	11.72	10.10	8.80	7.74	16.92	15.54	13.25	11.42	9.95	8.74	
		14	14.80	13.59	11.58	9.99	8.70	7.36	16.73	15.36	13.09	11.29	9.83	8.64	
		16	14.46	13.28	10.52	7.90	5.78	4.05	16.35	15.02	12.79	11.03	9.61	8.43	
		18	11.37	9.66	6.81	4.56	2.73	1.24	15.99	14.68	12.51	9.50	7.04	5.03	
	20	7.58	6.10	3.62	1.66			14.01	12.00	8.65	6.00	3.86	2.10		
	22	4.28	2.98	0.81				10.00	8.22	5.27	2.93	1.06			
	24	1.48						6.64	5.06	2.42					
	26							3.44	2.03						
	5" x 5-1/2"	28						0.69							
		8	28.48	26.16	22.29	19.22	16.74	14.71	32.19	29.57	25.19	21.72	18.92	16.63	
		10	28.48	26.16	22.29	19.22	16.74	14.71	32.19	29.57	25.19	21.72	18.92	16.63	
		12	28.48	26.16	22.29	19.22	16.74	14.71	32.19	29.57	25.19	21.72	18.92	16.63	
		14	28.15	25.85	22.03	19.00	16.55	14.54	31.82	29.22	24.90	21.47	18.71	16.44	
		16	27.51	25.27	21.53	18.56	16.17	13.49	31.10	28.56	24.34	20.98	18.28	16.07	
		18	26.90	24.70	19.58	15.26	11.76	8.91	30.41	27.93	23.79	20.52	17.87	15.69	
		20	21.87	19.02	14.26	10.49	7.45	4.95	29.74	27.32	23.28	18.42	14.31	10.94	
	6-3/4" x 6-3/4"	22	16.16	13.66	9.50	6.20	3.54	1.36	26.92	23.52	17.84	13.34	9.71	6.74	
		24	11.48	9.26	5.56	2.62			21.27	18.21	13.10	9.09	5.84	3.18	
		26	7.08	5.10	1.82				15.91	13.18	8.64	5.04	2.13		
		28	3.33	1.56					11.44	8.96	4.85	1.59			
		30							7.08	4.86	1.16				
		8	13.86	12.73	10.85	9.35	8.15	7.16	15.67	14.39	12.26	10.57	9.21	8.10	
		10	13.85	12.57	10.25	8.25	6.64	5.32	15.67	14.39	12.26	10.57	9.21	8.10	
		12	10.22	8.97	6.88	5.23	3.90	2.81	15.67	14.39	12.25	10.02	8.12	6.57	
	8-1/2" x 8-1/4"	14	6.90	5.84	4.10	2.71	1.59	0.68	12.82	11.32	8.83	6.85	5.27	3.95	
		16	4.04	3.15	1.68	0.51			9.17	7.91	5.81	4.14	2.80	1.69	
		18	1.61	0.85					6.15	5.08	3.27	1.84	0.69		
		20							3.55	2.62	1.07				
8		29.94	27.50	23.43	20.21	17.60	15.47	33.85	31.09	26.49	22.84	19.90	17.49		
10		29.94	27.50	23.43	20.21	17.60	15.47	33.85	31.09	26.49	22.84	19.90	17.49		
12		27.54	24.86	20.24	16.57	13.62	11.20	33.85	31.09	26.49	22.84	19.90	17.26		
14		21.21	18.87	14.98	11.89	9.40	7.36	31.10	27.97	22.74	18.58	15.23	12.48		
6-3/4" x 6-3/4"	16	15.81	13.83	10.52	7.90	5.78	4.05	24.27	21.59	17.14	13.60	10.75	8.42		
	18	11.37	9.66	6.81	4.56	2.73	1.24	18.69	16.39	12.54	9.50	7.04	5.03		
	20	7.58	6.10	3.62	1.66			14.01	12.00	8.65	6.00	3.86	2.10		
	22	4.28	2.98	0.81				10.00	8.22	5.27	2.93	1.06			
	24	1.48						6.64	5.06	2.42					
	26							3.44	2.03						
	28							0.69							
	8	56.95	52.31	44.58	38.43	33.48	29.43	64.38	59.14	50.39	43.45	37.85	33.27		
	10	56.95	52.31	44.58	38.43	33.48	29.43	64.38	59.14	50.39	43.45	37.85	33.27		
	12	56.09	51.02	42.58	35.75	30.13	25.53	64.38	59.14	50.39	43.45	37.85	33.27		
	14	45.38	40.92	33.52	27.63	22.89	19.00	63.22	57.46	47.89	40.03	33.65	28.42		
	16	35.93	32.15	25.84	20.83	16.79	13.49	51.64	46.55	38.08	31.34	25.91	21.47		
18	28.31	25.03	19.58	15.26	11.76	8.91	41.87	37.47	30.13	24.31	19.61	15.77			
20	21.87	19.02	14.26	10.49	7.45	4.95	33.80	29.94	23.52	18.42	14.31	10.94			
22	16.16	13.66	9.50	6.20	3.54	1.36	26.92	23.52	17.84	13.34	9.71	6.74			
24	11.48	9.26	5.56	2.62			21.27	18.21	13.10	9.09	5.84	3.18			
26	7.08	5.10	1.82				15.91	13.18	8.64	5.04	2.13				
28	3.33	1.56					11.44	8.96	4.85	1.59					
30							7.08	4.86	1.16						

Maximum Combined EPA Table - Direct Embedment

Fixture Configuration	EroVista Pole Size	Pole Height (ft)	Alaskan Yellow Cedar Poles						Southern Yellow Pine Poles							
			Maximum Fixture EPA (ft ²)						Maximum Fixture EPA (ft ²)							
			Wind Speed (mph)						Wind Speed (mph)							
			115	120	130	140	150	160	115	120	130	140	150	160		
Top Mount Fixture 	5" x 5-1/2"	8	14.96	13.56	11.21	9.35	7.76	6.41	22.33	20.33	17.01	14.38	12.25	10.51		
		10	10.84	9.61	7.56	5.93	4.62	3.54	16.78	15.19	12.55	10.46	8.65	7.13		
		12	7.36	6.34	4.65	3.30	2.22	1.33	12.86	11.52	9.12	7.21	5.67	4.41		
		14	4.48	3.62	2.21	1.08			9.30	8.09	6.08	4.48	3.20	2.15		
		16	1.98	1.26					6.18	5.17	3.47	2.13	1.04			
		18							3.57	2.70	1.25					
		20							1.29	0.55						
		8	36.11	32.92	27.61	23.39	19.99	17.19	49.45	45.18	38.06	32.40	27.84	24.11		
		10	27.42	24.88	20.56	17.00	14.12	11.77	38.07	34.67	28.98	24.48	20.77	17.61		
		12	21.03	18.80	15.07	12.12	9.74	7.78	30.20	27.37	22.43	18.46	15.26	12.64		
	6-3/4" x 6-3/4"	14	15.63	13.74	10.61	8.12	6.12	4.47	23.57	21.03	16.83	13.48	10.78	8.57		
		16	11.04	9.45	6.79	4.69	2.98	1.59	17.81	15.67	12.09	9.26	6.97	5.09		
		18	7.24	5.86	3.58	1.77			13.10	11.25	8.17	5.73	3.77	2.15		
		20	3.96	2.77	0.78				9.11	7.50	4.82	2.69	0.98			
		22	1.07						5.65	4.24	1.87					
		24							2.72	1.46						
		8	71.27	65.13	54.90	46.78	40.23	34.87	96.76	88.54	74.83	63.95	55.18	47.99		
		10	55.05	50.15	41.99	35.51	30.18	25.73	75.37	68.82	57.87	49.18	42.17	36.44		
		12	43.86	39.79	32.75	27.16	22.64	18.95	60.73	55.27	46.18	38.90	32.85	27.89		
		14	34.61	31.03	25.08	20.36	16.55	13.43	49.27	44.55	36.58	30.23	25.10	20.93		
	8-1/2" x 8-1/4"	16	26.73	23.70	18.64	14.63	11.38	8.73	39.27	35.19	28.38	22.99	18.63	15.07		
		18	20.33	17.70	13.33	9.87	7.07	4.79	31.14	27.60	21.73	17.06	13.30	10.22		
		20	14.87	12.58	8.78	5.76	3.33	1.33	24.36	21.27	16.13	12.06	8.76	6.07		
		22	10.00	8.00	4.67	2.04			18.54	15.82	11.28	7.69	4.79	2.42		
		24	5.95	4.18	1.23				13.71	11.27	7.21	4.00	1.40			
		26	2.12	0.55					9.12	6.94	3.33					
		28							5.23	3.27						
		30							1.44							
		Single Side Mount Fixture 	5" x 5-1/2"	8	6.06	5.57	4.75	4.09	3.56	3.13	6.85	6.30	5.36	4.63	4.03	3.54
				10	6.06	5.57	4.75	4.09	3.56	3.13	6.85	6.30	5.36	4.63	4.03	3.54
12	6.06			5.57	4.40	3.09	2.03	1.17	6.85	6.30	5.36	4.63	4.03	3.54		
14	4.22			3.38	2.00	0.90			6.78	6.22	5.30	4.31	3.04	2.01		
16	1.75			1.05					5.96	4.96	3.30	1.97	0.91			
18									3.37	2.52	1.10					
20									1.12							
8	13.10			12.03	10.25	8.84	7.70	6.77	14.81	13.60	11.59	10.00	8.71	7.65		
10	13.10			12.03	10.25	8.84	7.70	6.77	14.81	13.60	11.59	10.00	8.71	7.65		
12	13.10			12.03	10.25	8.84	7.70	6.77	14.81	13.60	11.59	10.00	8.71	7.65		
6-3/4" x 6-3/4"	14		12.95	11.89	10.13	7.95	5.96	4.34	14.64	13.44	11.46	9.88	8.60	7.56		
	16		10.82	9.24	6.62	4.53	2.85	1.48	14.30	13.14	11.20	9.10	6.83	4.98		
	18		7.04	5.68	3.43	1.64			12.91	11.07	8.02	5.60	3.65	2.04		
	20		3.78	2.61	0.65				8.94	7.34	4.69	2.58	0.88			
	22		0.91						5.49	4.10	1.76					
	24								2.58	1.34						
	8		24.92	22.89	19.50	16.81	14.65	12.87	28.17	25.87	22.05	19.01	16.56	14.55		
	10		24.92	22.89	19.50	16.81	14.65	12.87	28.17	25.87	22.05	19.01	16.56	14.55		
	12		24.92	22.89	19.50	16.81	14.65	12.87	28.17	25.87	22.05	19.01	16.56	14.55		
	14		24.63	22.62	19.28	16.62	14.48	12.72	27.85	25.57	21.79	18.79	16.37	14.38		
8-1/2" x 8-1/4"	16		24.07	22.11	18.46	14.47	11.25	8.62	27.21	24.99	21.29	18.36	15.99	14.06		
	18		20.13	17.52	13.18	9.74	6.96	4.68	26.61	24.44	20.82	16.93	13.18	10.10		
	20		14.69	12.42	8.64	5.65	3.22	1.24	24.19	21.11	16.00	11.94	8.66	5.98		
	22		9.84	7.86	4.55	1.94			18.39	15.68	11.16	7.59	4.70	2.34		
	24		5.81	4.05	1.12				13.57	11.14	7.10	3.90	1.32			
	26		1.99						8.99	6.83	3.23					
	28								5.12	3.17						
	30								1.34							
	Two or More Side Mount Fixtures 		5" x 5-1/2"	8	12.13	11.14	9.49	8.18	7.13	6.17	13.71	12.59	10.73	9.25	8.06	7.08
				10	10.47	9.27	7.26	5.68	4.40	3.35	13.71	12.59	10.73	9.25	8.06	6.93
12		7.05		6.06	4.40	3.09	2.03	1.17	12.55	11.23	8.87	7.00	5.49	4.25		
14		4.22		3.38	2.00	0.90			9.04	7.85	5.88	4.31	3.04	2.01		
16		1.75		1.05					5.96	4.97	3.29	1.98	0.91			
18									3.37	2.52	1.10					
20									1.12							
8		26.20		24.06	20.51	17.68	15.40	13.54	29.62	27.20	23.18	19.99	17.41	15.30		
10		26.20		24.06	20.27	16.75	13.90	11.58	29.62	27.20	23.18	19.99	17.41	15.30		
12		20.72		18.51	14.83	11.91	9.55	7.62	29.59	27.08	22.19	18.25	15.08	12.48		
6-3/4" x 6-3/4"		14	15.36	13.50	10.40	7.95	5.96	4.34	23.31	20.79	16.62	13.30	10.63	8.44		
		16	10.82	9.24	6.62	4.53	2.85	1.48	17.59	15.47	11.92	9.10	6.83	4.98		
		18	7.04	5.68	3.43	1.64			12.91	11.07	8.02	5.60	3.65	2.04		
		20	3.78	2.61	0.65				8.94	7.34	4.69	2.58	0.88			
		22	0.91						5.49	4.10	1.76					
		24							2.58	1.34						
		8	49.83	45.77	39.00	33.63	29.30	25.75	56.33	51.74	44.09	38.02	33.12	29.11		
		10	49.83	45.77	38.98	33.61	29.28	25.54	56.33	51.74	44.09	38.02	32.66	27.73		
		12	43.54	39.50	32.51	26.95	22.46	18.79	49.01	44.30	36.37	30.06	24.97	20.80		
		14	34.35	30.79	24.88	20.18	16.40	13.30	39.04	34.98	28.21	22.84	18.50	14.96		
8-1/2" x 8-1/4"		16	26.51	23.50	18.46	14.47	11.25	8.62	30.94	27.42	21.57	16.93	13.18	10.10		
		18	20.13	17.52	13.18	9.74	6.96	4.68	24.19	21.11	16.00	11.94	8.66	5.98		
		20	14.69	12.42	8.64	5.65	3.22	1.24	18.39	15.68	11.16	7.59	4.70	2.34		
		22	9.84	7.86	4.55	1.94			13.57	11.14	7.10	3.90	1.32			
		24	5.81	4.05	1.12				8.99	6.83	3.23					
		26	1.99						5.12	3.17						
		28							1.34							
		30							1.34							