

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** SB16 - Shoebox - 5700 - 300W T3 - 120V - IES

**Manufacturer:** SARIN Energy Solutions

**Lamp Output:** 1 lamp, rated Lumens/lamp: 45316

**Max Candela:** 17,476.0 at Horizontal: 270°, Vertical: 75°

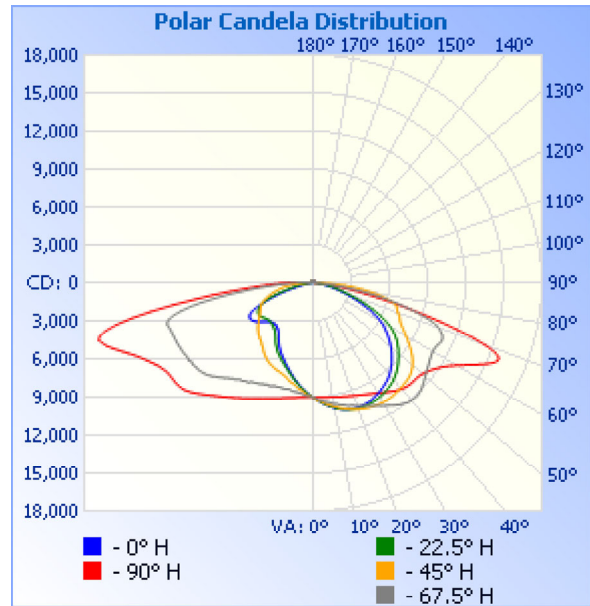
**Input Wattage:** 291.529

**Luminous Opening:** Circular (Dia: 3.94")

**Test Date:** 2023-02-01

**Photometry :** Type C

**Nema Type:** 7 X 7



### Roadway Summary

<b>Cutoff Classification:</b>	NONCUTOFF	
<b>Distribution:</b>	TYPE II, MEDIUM	
<b>Max Cd, 90 Deg Vert:</b>	4,431.7	
<b>Max Cd, 80 to &lt;90 Deg:</b>	12,953.0	
	Lumens	% Lamp
<b>Downward Street Side:</b>	25,729.8	56.8%
<b>Downward House Side:</b>	18,717.5	41.3%
<b>Downward Total:</b>	44,447.3	98.1%
<b>Upward Street Side:</b>	442.1	1%
<b>Upward House Side:</b>	333.5	0.7%
<b>Upward Total:</b>	775.6	1.7%
<b>Total Lumens:</b>	45,222.9	99.8%

### Flood Summary

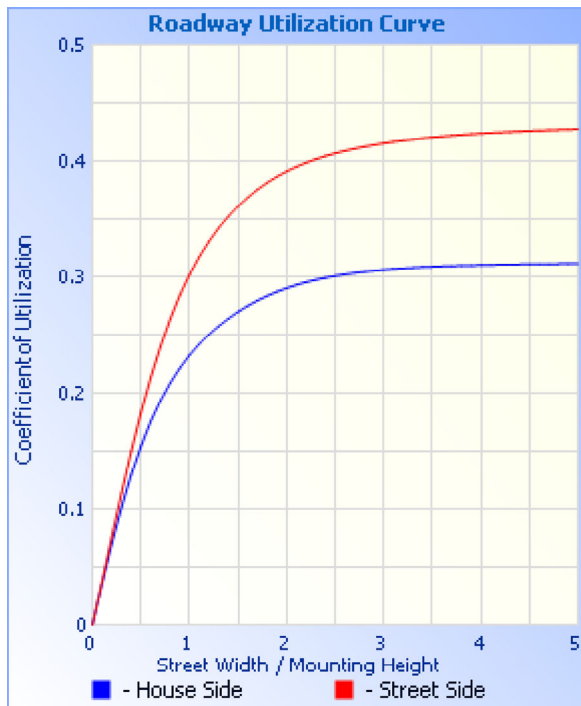
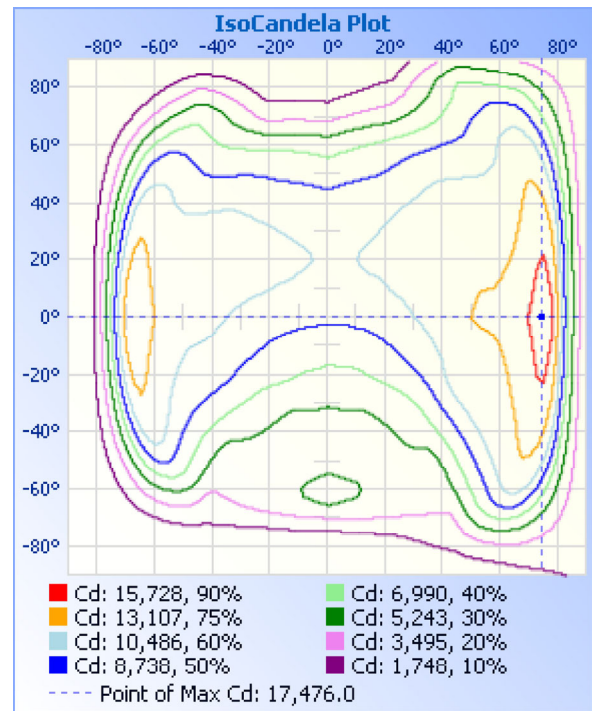
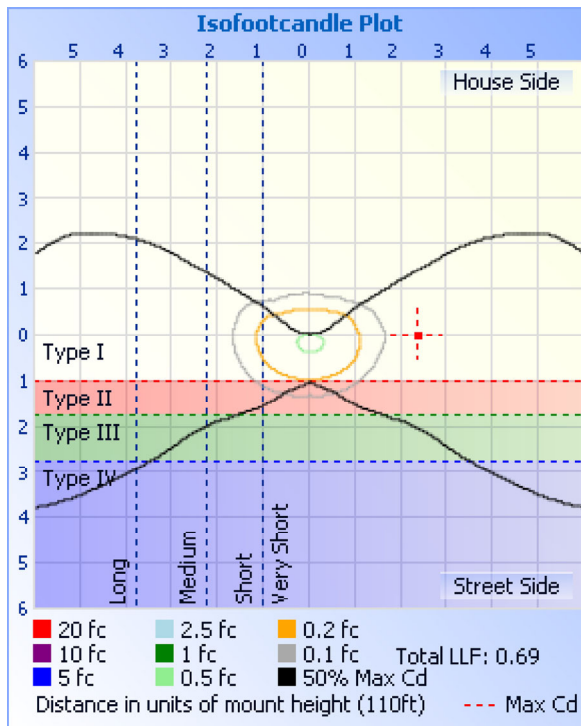
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
<b>Field (10%):</b>	97.1%	44,007.8	156.6	184.5
<b>Beam (50%):</b>	61.9%	28,055.0	156.7	116.3
<b>Total:</b>	99.8%	45,206.8		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	7,626.7	16.8%	16.9%
0-40	13,276.6	29.3%	29.4%
0-60	27,897.5	61.6%	61.7%
60-90	16,548.7	36.5%	36.6%
70-100	8,796.0	19.4%	19.5%
90-120	489.9	1.1%	1.1%
0-90	44,446.1	98.1%	98.3%
90-180	775.6	1.7%	1.7%
0-180	45,221.8	99.8%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	862.8	1.9%	90-100	301.3	0.7%
10-20	2,567.9	5.7%	100-110	92.7	0.2%
20-30	4,196.1	9.3%	110-120	95.9	0.2%
30-40	5,649.8	12.5%	120-130	86.1	0.2%
40-50	6,881.2	15.2%	130-140	71.2	0.2%
50-60	7,739.7	17.1%	140-150	54.6	0.1%
60-70	8,053.9	17.8%	150-160	39.4	0.1%
70-80	6,169.4	13.6%	160-170	25.4	0.1%
80-90	2,325.3	5.1%	170-180	9.1	0%



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
4.3R	488 fc	13.8 ft	41.7 ft
8.7R	119 fc	28.0 ft	84.3 ft
13.0R	53.3 fc	41.8 ft	126.0 ft
17.3R	30.1 fc	55.7 ft	167.7 ft
21.7R	19.1 fc	69.8 ft	210.3 ft
26.0R	13.3 fc	83.7 ft	252.0 ft

■ Vert. Spread: 116.3°  
■ Horiz. Spread: 156.7°

**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	1.00	1.00	1.00	.98
1	1.05	.99	.93	.88	1.02	.96	.91	.77	.92	.87	.84	.87	.84	.81	.83	.80	.78	.83	.80	.78	.75
2	.93	.83	.75	.68	.90	.81	.73	.60	.77	.70	.65	.73	.68	.63	.70	.65	.61	.70	.65	.61	.59
3	.84	.71	.61	.54	.81	.69	.60	.49	.66	.58	.52	.63	.56	.51	.60	.54	.49	.60	.54	.49	.47

4	.76	.62	.52	.44	.73	.60	.51	.40	.57	.49	.42	.55	.47	.42	.52	.46	.41	.38
5	.69	.54	.44	.36	.66	.53	.43	.34	.51	.42	.36	.48	.41	.35	.46	.40	.34	.32
6	.63	.48	.38	.31	.61	.47	.38	.29	.45	.37	.30	.43	.36	.30	.41	.35	.29	.27
7	.58	.43	.34	.27	.56	.42	.33	.25	.41	.32	.26	.39	.31	.26	.37	.31	.26	.23
8	.54	.39	.30	.23	.52	.38	.30	.22	.37	.29	.23	.35	.28	.23	.34	.27	.22	.20
9	.50	.36	.27	.21	.49	.35	.27	.20	.34	.26	.20	.32	.25	.20	.31	.25	.20	.18
10	.47	.33	.24	.19	.46	.32	.24	.18	.31	.24	.18	.30	.23	.18	.29	.23	.18	.16

Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	9014	9014	9014	9014	9014	9014	9014	9014	9014	9014	9014	9014	9014	9014	9014	9014	9014
1	9128	9122	9146	9048	9012	8973	8940	8908	8900	8908	8924	8965	9018	9061	9094	9116	9128
2	9235	9227	9258	9145	9016	8934	8866	8805	8788	8798	8881	8889	9024	9107	9174	9216	9235
3	9344	9332	9316	9275	9021	8897	8791	8703	8673	8689	8823	8896	9034	9154	9255	9318	9344
4	9452	9433	9374	9263	9028	8861	8718	8600	8554	8577	8716	8881	9046	9206	9331	9418	9452
5	9555	9533	9468	9308	9039	8834	8649	8495	8440	8463	8603	8805	9061	9259	9411	9516	9555
6	9657	9631	9578	9427	9053	8805	8585	8394	8318	8351	8491	8738	9080	9314	9493	9612	9657
7	9754	9728	9676	9449	9069	8782	8519	8290	8196	8236	8446	8730	9101	9371	9572	9706	9754
8	9848	9821	9748	9517	9087	8762	8456	8185	8071	8119	8392	8683	9126	9427	9651	9799	9848
9	9937	9910	9819	9632	9108	8745	8392	8081	7943	7998	8292	8677	9155	9485	9725	9886	9937
10	10025	9996	9898	9668	9131	8729	8331	7974	7811	7876	8186	8673	9186	9546	9806	9970	10025
11	10101	10076	9990	9702	9153	8717	8273	7864	7678	7753	8084	8668	9221	9608	9881	10048	10101
12	10170	10152	10073	9798	9178	8705	8214	7757	7545	7631	8031	8601	9259	9673	9953	10123	10170
13	10233	10220	10145	9847	9203	8696	8154	7649	7412	7512	7990	8568	9302	9737	10025	10190	10233
14	10286	10282	10206	9901	9232	8688	8094	7542	7280	7391	7895	8601	9349	9804	10096	10251	10286
15	10328	10338	10276	9997	9259	8682	8040	7443	7155	7280	7798	8622	9399	9872	10164	10302	10328
16	10363	10386	10352	10079	9289	8677	7989	7344	7032	7170	7706	8621	9448	9941	10224	10349	10363
17	10390	10426	10406	10111	9323	8676	7939	7250	6915	7066	7650	8623	9502	10012	10285	10386	10390
18	10407	10460	10472	10152	9357	8678	7892	7157	6799	6963	7609	8617	9560	10081	10343	10416	10407
19	10418	10486	10535	10243	9395	8682	7848	7065	6683	6866	7551	8640	9619	10155	10397	10438	10418
20	10421	10505	10594	10315	9437	8690	7808	6973	6567	6769	7508	8643	9681	10229	10448	10453	10421
21	10417	10519	10643	10388	9483	8701	7768	6877	6456	6674	7467	8684	9744	10305	10494	10462	10417
22	10410	10526	10687	10460	9530	8716	7727	6781	6348	6581	7440	8768	9810	10380	10539	10465	10410
23	10396	10530	10728	10505	9579	8737	7682	6681	6238	6491	7429	8805	9882	10457	10579	10465	10396
24	10376	10528	10763	10593	9632	8761	7631	6578	6128	6402	7383	8758	9952	10536	10618	10460	10376
25	10353	10525	10797	10692	9688	8789	7579	6468	6016	6313	7344	8816	10032	10618	10653	10451	10353
26	10315	10513	10823	10792	9746	8817	7520	6354	5901	6223	7295	8867	10114	10702	10688	10436	10315
27	10275	10498	10848	10856	9808	8849	7453	6236	5782	6127	7258	8900	10203	10788	10720	10417	10275
28	10224	10476	10866	10952	9874	8882	7383	6111	5658	6027	7230	8989	10294	10877	10752	10393	10224
29	10168	10448	10883	11081	9944	8916	7306	5980	5526	5918	7172	9036	10392	10966	10781	10362	10168
30	10109	10414	10896	11188	10016	8951	7228	5839	5393	5799	7110	9084	10490	11057	10809	10329	10109
31	10047	10377	10902	11275	10095	8987	7147	5702	5253	5680	7055	9119	10595	11143	10834	10292	10047
32	9984	10336	10906	11370	10176	9026	7068	5569	5115	5557	6956	9169	10703	11235	10861	10252	9984
33	9922	10292	10905	11502	10262	9072	6989	5430	4982	5421	6902	9332	10810	11322	10886	10209	9922
34	9856	10245	10895	11614	10353	9120	6916	5297	4858	5291	6819	9370	10919	11403	10909	10167	9856
35	9789	10199	10881	11731	10448	9175	6848	5176	4755	5170	6739	9404	11035	11486	10931	10123	9789
36	9719	10147	10861	11819	10544	9236	6788	5060	4665	5058	6636	9512	11148	11563	10945	10080	9719
37	9640	10091	10840	11898	10640	9300	6733	4950	4592	4959	6527	9539	11268	11637	10962	10035	9640
38	9555	10028	10816	11978	10732	9366	6678	4854	4533	4871	6440	9657	11389	11707	10972	9990	9555
39	9461	9960	10788	12037	10814	9425	6620	4763	4490	4800	6377	9785	11514	11778	10976	9942	9461
40	9360	9883	10757	12063	10885	9472	6555	4681	4456	4740	6303	9813	11645	11845	10981	9889	9360
41	9252	9796	10730	12080	10944	9509	6485	4608	4432	4694	6211	9980	11780	11912	10979	9832	9252
42	9136	9704	10702	12090	10987	9540	6398	4541	4419	4651	6154	10043	11923	11979	10974	9767	9136
43	9015	9607	10674	12073	11019	9558	6307	4482	4416	4618	6100	10232	12069	12045	10964	9695	9015
44	8888	9505	10642	12006	11038	9566	6206	4434	4424	4601	6074	10343	12224	12116	10952	9618	8888
45	8752	9397	10602	11970	11050	9570	6096	4394	4441	4576	5972	10495	12385	12186	10934	9534	8752
46	8609	9281	10551	11899	11058	9571	5979	4361	4469	4557	5949	10625	12549	12257	10914	9443	8609

47	8466	9162	10487	11788	11069	9569	5863	4335	4510	4558	5903	10786	12710	12330	10888	9346	8466
48	8318	9039	10405	11712	11089	9569	5740	4319	4567	4546	5808	10911	12866	12398	10862	9240	8318
49	8164	8913	10313	11611	11123	9567	5616	4312	4640	4546	5739	11037	13006	12460	10833	9129	8164
50	8004	8781	10207	11513	11180	9575	5491	4317	4731	4554	5679	11116	13128	12511	10799	9014	8004
51	7846	8646	10081	11417	11257	9585	5369	4332	4837	4571	5573	11199	13224	12547	10764	8895	7846
52	7684	8509	9944	11331	11360	9602	5246	4358	4956	4607	5506	11274	13296	12562	10730	8773	7684
53	7516	8366	9787	11240	11479	9623	5126	4398	5080	4644	5421	11335	13342	12557	10690	8650	7516
54	7342	8217	9616	11185	11617	9651	5010	4448	5207	4693	5299	11343	13370	12528	10646	8525	7342
55	7165	8061	9432	11115	11777	9680	4897	4508	5327	4760	5226	11403	13384	12480	10594	8398	7165
56	6991	7898	9239	11045	11952	9723	4794	4574	5434	4817	5133	11451	13395	12415	10533	8266	6991
57	6812	7723	9042	10983	12153	9774	4693	4639	5525	4879	5047	11407	13415	12329	10459	8129	6812
58	6626	7540	8844	10933	12389	9838	4592	4699	5596	4913	4979	11528	13452	12233	10371	7988	6626
59	6429	7340	8652	10889	12666	9920	4496	4741	5650	4965	4917	11504	13515	12123	10269	7839	6429
60	6191	7120	8464	10865	12987	10020	4399	4765	5682	4961	4841	11509	13607	12005	10154	7682	6191
61	5936	6846	8284	10860	13356	10137	4300	4770	5690	4945	4781	11587	13725	11883	10025	7517	5936
62	5665	6547	8112	10879	13765	10276	4198	4750	5650	4911	4722	11601	13870	11757	9884	7341	5665
63	5379	6232	7942	10920	14198	10426	4091	4705	5610	4861	4677	11625	14042	11639	9729	7148	5379
64	5063	5895	7785	10988	14646	10559	3976	4627	5488	4792	4625	11653	14230	11529	9564	6927	5063
65	4730	5530	7632	11064	15098	10658	3850	4505	5294	4696	4570	11681	14442	11428	9390	6686	4730
66	4403	5159	7500	11111	15498	10730	3708	4340	5007	4617	4502	11709	14668	11334	9209	6416	4403
67	4072	4771	7402	11075	15768	10763	3564	4126	4635	4472	4449	11728	14924	11255	9026	6124	4072
68	3730	4397	7354	10966	15767	10665	3400	3880	4228	4254	4350	11743	15211	11187	8842	5806	3730
69	3422	4006	7273	10775	15357	10352	3231	3604	3850	4066	4276	11756	15534	11130	8662	5490	3422
70	3102	3625	7151	10561	14527	9828	3053	3294	3490	3773	4129	11771	15891	11093	8488	5170	3102
71	2806	3275	7054	10272	13341	9138	2875	2962	3111	3509	3977	11792	16255	11075	8326	4839	2806
72	2519	2909	6960	9830	11947	8288	2702	2602	2678	3179	3847	11826	16635	11082	8166	4530	2519
73	2262	2610	6889	9224	10489	7395	2527	2240	2301	2833	3709	11883	17004	11114	8024	4221	2262
74	2041	2377	6853	8517	9063	6548	2340	1899	1921	2511	3552	11948	17241	11178	7896	3928	2041
75	1837	2148	6751	7764	7686	5739	2115	1588	1542	2199	3385	11885	17476	11273	7814	3651	1837
76	1621	1919	6509	7009	6358	4896	1913	1300	1216	1918	3211	11646	17302	11372	7734	3386	1621
77	1408	1706	6173	6243	5176	4038	1712	1055	957	1669	3045	11250	16756	11371	7612	3131	1408
78	1199	1500	5818	5403	4234	3313	1489	877	797	1457	2880	10632	15829	11237	7498	2892	1199
79	1010	1310	5417	4545	3420	2637	1184	722	678	1285	2720	9842	14542	11011	7397	2664	1010
80	867	1131	4972	3742	2716	2058	899	598	584	1106	2556	8902	12953	10752	7304	2446	867
81	725	974	4509	3006	2122	1530	609	443	486	944	2385	7839	11138	10395	7241	2239	725
82	623	832	4023	2327	1530	1066	374	327	382	830	2172	6719	9341	9856	7212	2039	623
83	531	714	3531	1649	1034	640	229	189	297	717	1960	5696	7919	9165	7182	1839	531
84	455	614	3073	1093	570	214	85	106	194	610	1737	4813	6500	8380	7047	1647	455
85	388	524	2552	663	328	147	69	76	91	525	1538	4013	5440	7567	6715	1455	388
86	330	441	1937	387	88	83	67	47	43	376	1278	3272	4512	6755	6347	1271	330
87	278	359	1323	113	84	86	70	47	34	225	981	2625	3695	5902	5942	1107	278
88	230	276	737	105	88	90	73	48	33	98	677	2128	3064	4971	5481	971	230
89	185	202	152	109	93	94	75	50	34	50	410	1675	2476	4053	4964	842	185
90	143	128	111	113	97	98	77	51	33	40	255	1280	1975	3249	4432	716	143
91	104	72	77	117	101	101	80	52	33	40	101	943	1519	2460	3898	586	104
92	76	43	78	120	105	104	81	54	34	41	72	630	1110	1840	3330	450	76
93	47	40	80	124	109	107	83	55	34	42	65	317	754	1221	2627	323	47
94	35	40	82	127	113	110	85	56	36	43	67	108	398	766	1911	199	35
95	35	40	83	130	116	112	87	58	37	44	69	102	105	393	1027	77	35

96	36	42	83	132	119	114	88	59	39	45	71	97	89	228	693	33	36
97	38	43	84	135	122	116	90	61	41	46	73	100	77	64	366	31	38
98	39	45	85	138	124	118	91	63	43	48	75	103	81	59	38	32	39
99	41	46	87	141	127	119	93	65	46	50	76	106	85	63	36	33	41
100	42	48	89	143	128	120	94	67	49	52	77	109	89	66	38	35	42
101	44	49	91	146	130	121	96	70	53	55	79	113	92	69	40	36	44
102	45	50	93	148	131	123	98	72	57	58	81	117	96	72	41	37	45
103	45	50	95	150	132	124	100	76	61	62	84	121	99	74	43	39	45
104	46	50	97	152	133	125	102	78	64	66	86	124	103	77	45	40	46
105	47	51	99	154	133	126	104	81	67	68	89	128	106	80	46	41	47
106	48	53	99	155	133	127	106	83	70	71	91	130	108	82	48	43	48
107	50	55	93	157	133	128	107	85	72	72	92	132	111	84	49	44	50
108	51	56	91	158	133	128	108	86	73	74	93	134	112	86	51	45	51
109	52	57	89	159	133	129	110	88	75	75	94	135	113	87	52	46	52
110	54	59	88	160	133	129	111	89	77	76	95	136	114	88	54	48	54
111	55	60	89	161	132	129	112	90	77	76	96	137	115	89	55	49	55
112	56	61	88	162	131	129	112	91	78	77	97	138	115	90	56	50	56
113	57	62	87	162	130	129	112	91	78	77	99	138	115	91	57	51	57
114	58	63	87	162	129	128	112	91	79	79	101	139	115	91	58	52	58
115	60	64	87	162	128	128	112	91	80	81	102	138	115	92	60	53	60
116	61	65	88	162	127	127	111	92	81	82	103	138	116	92	61	54	61
117	62	66	88	160	126	126	111	92	83	83	103	137	116	93	61	55	62
118	63	67	88	156	124	125	110	93	84	84	104	137	116	93	62	56	63
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125	69	72	89	120	113	116	108	99	94	93	106	130	110	91	67	61	69
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154	77	79	80	82	81	83	86	92	97	99	105	96	73	74	74	75	77
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166	87	88	88	89	88	86	89	95	100	103	105	98	81	83	82	86	87
167	88	88	89	90	88	87	89	95	100	104	105	98	82	84	83	87	88
168	89	89	90	91	89	87	90	95	100	104	105	98	83	85	84	88	89
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179	96	102	101	100	93	91	91	92	96	101	101	99	93	92	91	93	96
180	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTDATE] 2023-02-01  
[TESTLAB]  
[ISSUEDATE] 2023-02-02 10:25:28  
[MANUFAC] SARIN Energy Solutions  
[\_LAMPPOSITION] 0,0  
[\_TOTALLUMINAIRELUMENS] 45221.8  
[OTHER] EVERFINE GO-2000A\_V1 SYSTEM  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.