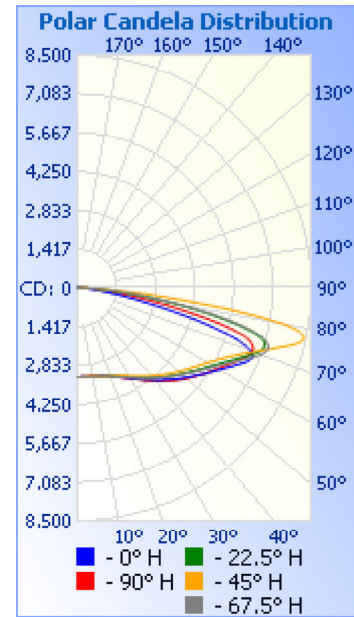


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Shoebox SB7 240W T5 - 480V  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-SB7-4000-240-T5-480V  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 29848.6  
**Max Candela:** 8,438.0 at Horizontal: 45°, Vertical: 77°  
**Input Wattage:** 236.65  
**Luminous Opening:** Point  
**Test Lab:** Shenzhen Belling Test Laboratory  
**Photometry :** Type C  
**Nema Type:** 7 X 7

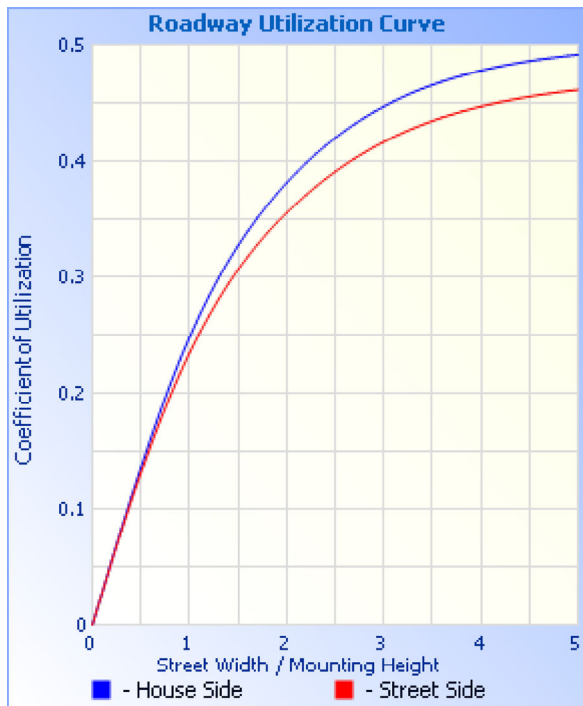
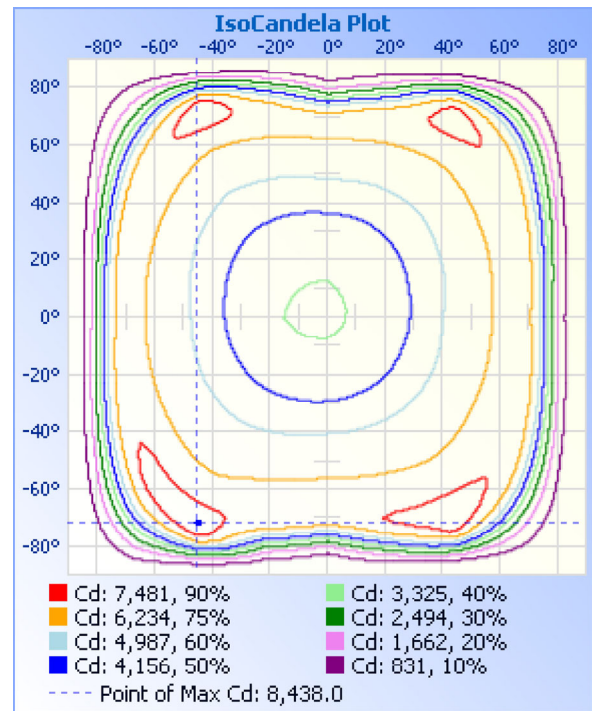
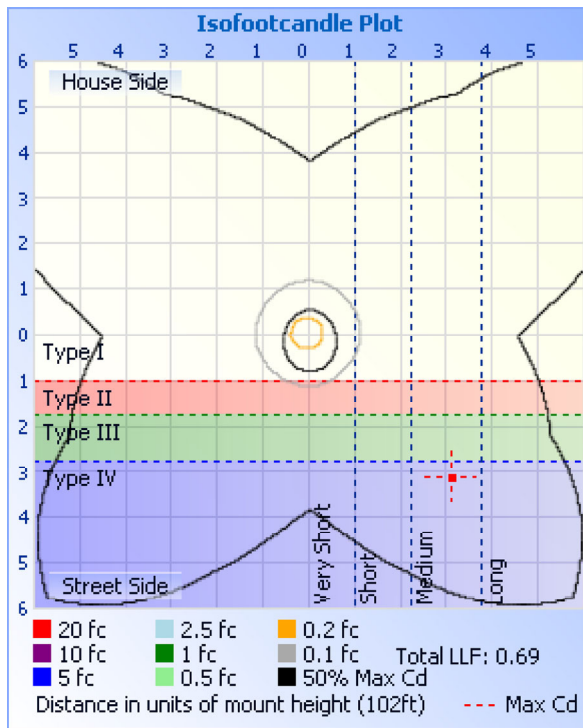


Roadway Summary		
Cutoff Classification:	NONCUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	89.3	
Max Cd, 80 to <90 Deg:	7,858.2	
	Lumens	% Lamp
Downward Street Side:	14,403.6	48.3%
Downward House Side:	15,268.1	51.2%
Downward Total:	29,671.7	99.4%
Upward Street Side:	84.5	0.3%
Upward House Side:	92.3	0.3%
Upward Total:	176.9	0.6%
<b>Total Lumens:</b>	<b>29,848.6</b>	<b>100%</b>

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.8%	29,495.2	153.5	171.5
Beam (50%):	81.5%	24,319.5	123.3	161
<b>Total:</b>	<b>99.9%</b>	<b>29,820.3</b>		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	3,048.7	10.2%	10.2%
0-40	5,767.9	19.3%	19.3%
0-60	14,745.6	49.4%	49.4%
60-90	14,926.9	50%	50%
70-100	8,391.0	28.1%	28.1%
90-120	116.1	0.4%	0.4%
0-90	29,672.5	99.4%	99.4%
90-180	176.9	0.6%	0.6%
0-180	29,849.4	100%	100%

Lumens Per Zone						
Zone	Lumens	% Total	Zone	Lumens	% Total	
0-10	315.1	1.1%	90-100	51.4	0.2%	
10-20	980.4	3.3%	100-110	35.8	0.1%	
20-30	1,753.3	5.9%	110-120	28.8	0.1%	
30-40	2,719.1	9.1%	120-130	20.4	0.1%	
40-50	3,858.0	12.9%	130-140	14.9	0%	
50-60	5,119.7	17.2%	140-150	11.3	0%	
60-70	6,587.3	22.1%	150-160	8.1	0%	
70-80	6,637.5	22.2%	160-170	4.7	0%	
80-90	1,702.0	5.7%	170-180	1.4	0%	



**Illuminance at a Distance**

Height	Center Beam fc	Beam Width	Beam Width
16.7ft	11.7 fc	199.4 ft	61.8 ft
33.3ft	2.94 fc	397.7 ft	123.3 ft
50.0ft	1.30 fc	597.1 ft	185.2 ft
66.7ft	0.73 fc	796.5 ft	247.0 ft
83.3ft	0.47 fc	994.7 ft	308.5 ft
100.0ft	0.33 fc	1,194.2 ft	370.3 ft

Vert. Spread: 161.0°  
 Horiz. Spread: 123.3°

**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	0	50	30	20	0	50	30	20	0	0
RCC: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.01	1.01	1.01	1.01	.99	
1	1.03	.96	.90	.84	1.00	.94	.88	.73	.89	.84	.80	.85	.81	.77	.81	.77	.77	.74	.74	.72	
2	.90	.78	.69	.61	.87	.76	.67	.54	.72	.65	.58	.69	.62	.57	.65	.60	.55	.55	.52	.52	
3	.79	.65	.54	.46	.76	.63	.53	.42	.60	.51	.44	.57	.49	.43	.54	.48	.42	.42	.39	.39	

4	.71	.56	.44	.36	.68	.54	.44	.33	.51	.42	.35	.49	.41	.34	.46	.39	.33	.31
5	.64	.48	.37	.29	.62	.47	.36	.27	.45	.35	.28	.42	.34	.28	.40	.33	.27	.25
6	.59	.43	.32	.24	.56	.41	.31	.22	.39	.30	.23	.37	.29	.23	.36	.28	.23	.20
7	.54	.38	.27	.20	.52	.37	.27	.19	.35	.26	.20	.34	.25	.19	.32	.25	.19	.17
8	.50	.34	.24	.17	.48	.33	.24	.16	.32	.23	.17	.30	.23	.17	.29	.22	.17	.14
9	.46	.31	.21	.15	.45	.30	.21	.14	.29	.21	.15	.28	.20	.15	.27	.20	.15	.12
10	.43	.28	.19	.13	.42	.28	.19	.13	.27	.19	.13	.26	.18	.13	.25	.18	.13	.11

## 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	3255	3255	3255	3255	3255	3255	3255	3255	3255	3255	3255	3255	3255	3255	3255	3255	3255
1	3246	3254	3249	3246	3248	3250	3264	3259	3255	3264	3266	3264	3265	3261	3259	3255	3246
2	3243	3251	3249	3246	3244	3248	3261	3268	3263	3276	3270	3275	3274	3268	3264	3251	3243
3	3247	3246	3248	3247	3242	3249	3262	3275	3270	3284	3281	3287	3285	3274	3269	3259	3247
4	3249	3251	3242	3243	3242	3252	3269	3281	3286	3299	3298	3298	3296	3281	3278	3266	3249
5	3253	3256	3242	3244	3242	3254	3275	3290	3293	3310	3311	3311	3309	3297	3288	3274	3253
6	3266	3260	3247	3250	3245	3256	3279	3301	3312	3326	3330	3323	3324	3310	3300	3282	3266
7	3271	3264	3251	3255	3248	3259	3294	3319	3326	3348	3349	3344	3340	3329	3315	3292	3271
8	3278	3276	3258	3262	3253	3271	3302	3332	3343	3364	3369	3363	3356	3341	3326	3301	3278
9	3288	3276	3269	3271	3258	3287	3320	3352	3368	3386	3394	3378	3377	3361	3342	3311	3288
10	3303	3289	3278	3278	3267	3298	3333	3373	3398	3416	3423	3405	3399	3377	3362	3329	3303
11	3306	3297	3292	3287	3278	3310	3354	3397	3423	3444	3444	3425	3420	3400	3385	3342	3306
12	3318	3313	3298	3296	3289	3323	3375	3414	3450	3475	3470	3459	3442	3420	3402	3355	3318
13	3327	3322	3312	3309	3300	3344	3393	3441	3473	3502	3510	3485	3470	3444	3426	3364	3327
14	3333	3333	3327	3313	3309	3364	3418	3460	3495	3530	3541	3508	3496	3469	3440	3380	3333
15	3341	3350	3342	3325	3321	3376	3443	3487	3515	3560	3570	3538	3526	3490	3462	3392	3341
16	3353	3361	3362	3344	3336	3397	3472	3511	3538	3590	3614	3571	3559	3525	3482	3407	3353
17	3357	3376	3372	3360	3351	3415	3504	3534	3560	3620	3644	3609	3592	3556	3507	3429	3357
18	3387	3382	3392	3374	3370	3442	3519	3563	3591	3646	3679	3649	3629	3587	3531	3448	3387
19	3410	3404	3402	3401	3390	3467	3545	3588	3630	3686	3716	3688	3669	3620	3557	3472	3410
20	3433	3421	3416	3425	3416	3496	3570	3620	3671	3722	3757	3728	3714	3658	3580	3493	3433
21	3461	3445	3434	3448	3447	3533	3597	3664	3708	3763	3793	3775	3757	3699	3606	3519	3461
22	3485	3468	3448	3477	3479	3574	3630	3705	3760	3812	3835	3820	3806	3741	3640	3555	3485
23	3518	3496	3471	3506	3512	3608	3664	3749	3811	3865	3878	3875	3856	3788	3668	3583	3518
24	3548	3528	3502	3537	3548	3654	3699	3802	3862	3912	3928	3935	3906	3833	3702	3621	3548
25	3583	3565	3527	3577	3592	3698	3740	3849	3915	3973	3980	3991	3957	3888	3744	3655	3583
26	3619	3595	3559	3613	3631	3742	3795	3900	3967	4027	4035	4049	4009	3931	3779	3694	3619
27	3660	3632	3589	3648	3672	3779	3844	3961	4033	4090	4087	4112	4066	3985	3827	3739	3660
28	3702	3670	3621	3688	3716	3837	3893	4016	4096	4151	4150	4178	4127	4037	3873	3783	3702
29	3748	3707	3661	3735	3761	3888	3950	4087	4155	4212	4220	4246	4192	4092	3930	3823	3748
30	3795	3750	3698	3781	3809	3934	4001	4137	4220	4283	4282	4311	4263	4147	3981	3870	3795
31	3845	3791	3746	3823	3863	3982	4062	4201	4287	4352	4354	4376	4335	4201	4033	3914	3845
32	3899	3836	3786	3865	3916	4030	4118	4266	4359	4420	4417	4438	4407	4257	4088	3962	3899
33	3945	3884	3833	3915	3969	4087	4181	4331	4435	4482	4482	4507	4489	4319	4140	4010	3945
34	4003	3932	3881	3961	4026	4146	4245	4407	4506	4555	4551	4576	4562	4385	4200	4060	4003
35	4066	3981	3930	4009	4089	4200	4306	4470	4582	4633	4620	4643	4637	4443	4254	4112	4066
36	4126	4032	3978	4064	4162	4256	4371	4538	4659	4712	4698	4712	4712	4503	4312	4171	4126
37	4188	4088	4030	4115	4221	4321	4432	4607	4742	4783	4769	4778	4788	4570	4369	4225	4188
38	4248	4148	4082	4173	4285	4389	4494	4673	4818	4848	4842	4844	4859	4635	4436	4286	4248
39	4314	4206	4130	4225	4350	4453	4557	4733	4902	4922	4909	4916	4934	4699	4490	4345	4314
40	4386	4259	4185	4279	4416	4516	4628	4808	4975	4996	4975	4979	5003	4766	4548	4409	4386
41	4448	4325	4239	4338	4487	4579	4686	4874	5055	5078	5044	5048	5076	4830	4610	4463	4448
42	4517	4374	4291	4395	4564	4641	4749	4952	5139	5149	5116	5119	5146	4895	4669	4528	4517
43	4580	4437	4351	4457	4633	4712	4812	5031	5216	5222	5180	5196	5217	4959	4733	4594	4580
44	4649	4500	4404	4517	4707	4778	4878	5099	5297	5306	5248	5266	5291	5033	4792	4655	4649
45	4722	4570	4459	4581	4782	4855	4934	5171	5374	5370	5314	5341	5367	5104	4852	4733	4722
46	4792	4623	4516	4649	4863	4921	5003	5246	5448	5449	5388	5415	5444	5175	4913	4792	4792

47	4870	4693	4584	4710	4934	4983	5063	5321	5528	5519	5456	5489	5512	5244	4982	4865	4870
48	4938	4761	4633	4778	5002	5055	5127	5409	5620	5592	5516	5564	5584	5319	5041	4940	4938
49	5015	4822	4699	4848	5071	5120	5191	5481	5701	5677	5581	5629	5645	5386	5106	5016	5015
50	5092	4888	4752	4920	5147	5188	5258	5554	5782	5751	5655	5705	5713	5466	5167	5082	5092
51	5171	4955	4819	4988	5215	5257	5316	5629	5863	5822	5722	5781	5788	5535	5235	5154	5171
52	5245	5030	4885	5060	5281	5331	5383	5711	5946	5890	5791	5855	5865	5615	5303	5235	5245
53	5325	5096	4947	5139	5352	5403	5444	5791	6024	5966	5861	5939	5929	5679	5378	5312	5325
54	5410	5177	5014	5216	5421	5474	5510	5872	6102	6040	5932	6015	6003	5763	5453	5393	5410
55	5495	5258	5081	5296	5507	5550	5584	5953	6182	6124	6011	6094	6079	5848	5527	5472	5495
56	5586	5335	5154	5390	5586	5634	5648	6043	6270	6196	6083	6183	6157	5930	5597	5560	5586
57	5671	5417	5229	5470	5661	5714	5722	6121	6354	6274	6158	6269	6233	6023	5684	5645	5671
58	5771	5494	5304	5559	5731	5798	5794	6218	6436	6353	6242	6360	6300	6117	5767	5726	5771
59	5864	5589	5381	5660	5809	5888	5867	6309	6524	6437	6327	6446	6373	6214	5857	5820	5864
60	5967	5682	5466	5752	5897	5978	5948	6395	6613	6519	6426	6537	6442	6315	5955	5922	5967
61	6075	5782	5551	5858	5982	6091	6031	6494	6714	6596	6519	6643	6514	6423	6050	6018	6075
62	6186	5877	5659	5967	6068	6195	6111	6590	6798	6693	6616	6735	6577	6527	6155	6120	6186
63	6305	5990	5763	6089	6162	6309	6202	6693	6898	6785	6723	6834	6636	6633	6273	6235	6305
64	6422	6107	5883	6213	6265	6424	6307	6794	7006	6872	6840	6929	6679	6757	6397	6353	6422
65	6555	6232	6001	6358	6366	6549	6417	6904	7098	6962	6956	7020	6714	6879	6521	6494	6555
66	6681	6361	6136	6506	6462	6709	6528	7019	7184	7072	7079	7124	6725	6981	6661	6622	6681
67	6781	6502	6286	6648	6569	6856	6646	7145	7243	7178	7211	7209	6711	7087	6812	6750	6781
68	6843	6656	6444	6821	6670	7012	6789	7247	7257	7302	7355	7275	6670	7180	6965	6886	6843
69	6837	6800	6622	6974	6733	7182	6928	7344	7217	7407	7498	7318	6573	7265	7138	7007	6837
70	6712	6946	6838	7123	6775	7374	7082	7407	7058	7499	7641	7339	6406	7304	7317	7102	6712
71	6462	7063	7058	7232	6770	7547	7251	7404	6783	7561	7795	7327	6171	7313	7518	7110	6462
72	6115	7127	7298	7287	6693	7682	7435	7310	6378	7576	7941	7257	5770	7261	7704	7035	6115
73	5623	7139	7545	7271	6543	7790	7645	7112	5854	7492	8095	7127	5319	7150	7887	6839	5623
74	5069	7058	7800	7175	6277	7817	7841	6757	5190	7316	8207	6893	4709	6969	8033	6532	5069
75	4420	6854	8082	6981	5847	7757	8058	6287	4510	7012	8301	6575	4140	6677	8148	6022	4420
76	3728	6508	8314	6647	5308	7633	8239	5731	3826	6584	8346	6177	3453	6327	8158	5442	3728
77	3092	6038	8438	6192	4618	7407	8370	5055	3124	5954	8277	5663	2870	5838	8055	4794	3092
78	2498	5446	8422	5621	3970	7071	8392	4318	2534	5254	8066	5059	2350	5368	7796	4127	2498
79	1998	4828	8195	5008	3351	6571	8225	3585	1983	4575	7650	4355	1901	4777	7351	3436	1998
80	1601	4160	7683	4267	2772	6019	7858	2933	1523	3785	6937	3722	1523	4206	6519	2839	1601
81	1261	3457	6723	3610	2199	5360	7074	2313	1175	3056	5750	3106	1198	3568	5519	2284	1261
82	977	2759	5524	2972	1753	4653	6128	1842	903	2436	4639	2544	911	2924	4361	1836	977
83	741	2214	4216	2383	1376	3843	4854	1409	657	1880	3445	2012	679	2331	3309	1475	741
84	563	1741	3138	1936	1062	3110	3611	1041	475	1414	2449	1587	490	1723	2365	1162	563
85	402	1288	2253	1490	808	2437	2539	756	340	981	1632	1209	335	1224	1618	868	402
86	277	907	1403	1105	576	1780	1574	525	228	626	913	829	216	760	934	620	277
87	162	562	721	694	405	1163	890	315	132	305	435	500	112	378	431	362	162
88	89	261	287	357	265	687	402	184	97	187	179	240	59	126	147	149	89
89	61	77	101	115	140	280	178	75	67	76	99	81	44	60	69	51	61
90	55	62	79	65	64	89	86	50	54	67	53	63	41	61	73	45	55
91	45	64	67	59	51	78	86	56	51	65	61	59	38	43	63	45	45
92	42	59	54	56	47	71	76	56	50	65	67	40	35	52	60	47	42
93	43	56	55	60	45	61	72	50	49	54	62	44	33	43	55	40	43
94	41	57	50	44	42	56	62	52	48	50	55	55	31	33	52	36	41
95	44	50	30	47	40	53	49	44	48	55	49	51	30	39	46	44	44

96	39	53	44	29	37	52	51	52	42	47	54	45	28	45	35	34	39
97	30	40	36	42	36	49	54	51	45	42	51	40	28	44	46	32	30
98	31	42	33	31	34	49	57	40	42	49	40	46	26	36	43	35	31
99	37	42	39	27	33	46	49	45	44	47	46	37	26	34	39	33	37
100	40	38	37	36	31	40	51	37	38	49	41	40	25	38	33	38	40
101	31	39	29	46	31	37	49	41	37	46	37	43	25	39	39	37	31
102	37	34	32	31	30	33	49	43	31	39	37	38	24	23	40	30	37
103	31	45	33	36	29	28	39	42	42	36	37	42	24	37	23	36	31
104	39	37	36	34	28	40	37	41	42	41	45	34	23	35	36	31	39
105	32	41	36	14	27	33	41	39	33	44	34	35	22	24	23	21	32
106	33	42	31	32	27	36	44	38	41	38	30	40	22	31	35	33	33
107	36	29	31	34	25	33	42	31	41	39	33	26	20	28	38	27	36
108	27	34	30	34	25	33	34	41	39	41	38	36	20	27	21	28	27
109	41	27	25	31	23	27	34	34	38	35	27	34	20	29	33	29	41
110	35	40	26	26	23	31	34	33	37	34	30	35	20	31	29	24	35
111	48	31	25	32	23	27	35	35	44	29	33	36	19	27	34	31	48
112	42	34	32	34	22	32	37	30	38	35	33	26	18	30	33	32	42
113	54	31	20	24	22	28	30	36	40	26	34	19	18	23	29	30	54
114	49	34	25	26	21	27	25	28	48	22	26	30	17	28	23	28	49
115	41	28	21	30	21	30	35	38	52	38	24	28	17	26	28	28	41
116	45	32	16	26	20	24	30	36	51	35	24	29	16	21	18	32	45
117	39	29	16	24	19	19	31	33	48	35	30	32	16	20	27	25	39
118	45	29	18	23	19	22	30	30	42	33	28	35	15	24	23	24	45
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**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] Shenzhen Belling Test Laboratory  
[ISSUE DATE] 2018-5-2 14:23  
[MANUFAC] SARIN Energy Inc  
[LUMINAIRE] SES-SB7-4000-240-T5-480V  
[\_TOTALLUMINAIRELUMENS] 29849.4  
[VOLTAGE] 480.3 V  
[CURRENT] 0.5253 A  
[POWERFACTOR] 0.990  
[TESTINST] GPM-3000  
[TESTDIST] 17.398 M  
[TESTTEMPERATURE] 26.9 'C  
[TESTHUMIDITY]  
[TESTOPERATOR]  
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.