



LM-79 Distribution Test Report (Luminaire)

Total Luminous Flux, Luminous Intensity Distribution and
Electrical Characteristics of Customer Submitted Luminaire

CURTIS-STRAUS

Report No.: PHM-RPT-180412-01
Date: April 12, 2018

LM-79 Distribution Testing: Total Luminous Flux, Luminous Intensity Distribution, Electrical Characteristics and Efficacy.

Report Prepared for:

Vantage Lighting
181 Narragansett Park Drive
East Providence, RI 02916
USA
Telephone: (860) 564-4512

Description : 8" ENCLOSED
Model Tested: A8VEFLEDU-5035K-L8011SCL
WO/CS#: S0747

Report Issue Date: April 12, 2018
Date of Test(s): April 9- April 12, 2018
Total Number of Pages : 9 (including this page)

Report Reviewed by:

Mark Razvi
Photometric Lab Supervisor
Curtis-Straus



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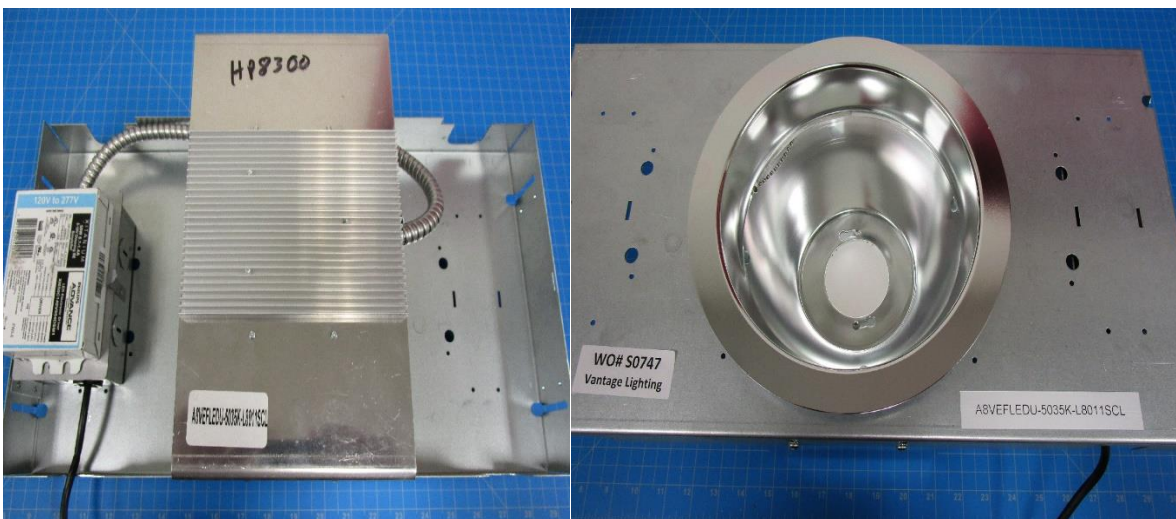
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DETAILED PRODUCT DESCRIPTION

Model #	A8VEFLEDU-5035K-L8011SCL
CS/WO#	S0747
Description	8" ENCLOSED
Supply Voltage	120VAC

Pictures:





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Curtis-Straus Photometric Testing Information

Photometric Testing is performed in accordance with the procedures outlined in LM-79-2008 . The test sample is evaluated for photometric and electrical characteristics using the equipment listed below.

Curtis-Straus Environmental Testing Info

Curtis-Straus testing laboratory temperature during testing: 25.9 °C .

LIST OF EQUIPMENT USED:

Description	Model No.	Serial No.	Asset No	Cal. Date	Cal. Due
Yokogawa Power Meter	WT-310E	C2SK10001V	2360	04-21-17	04-21-18
Chroma AC Power Supply	61603	616030001283	2355	04-21-17	04-21-18
LabSphere Type-C GoniometerSystem	PM-150-140	022172153	AA-30058-195	04-09-18	05-09-18
Digital Thermometer	4627	160739886	2392	09-07-16	09-07-18

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LM-79-2008 Distribution Test Data

Model # A8VEFLEDU-5035K-L8011SCL
CS/WO# S0747
Description 8" ENCLOSED
Supply Voltage 120VAC

Result of Tests

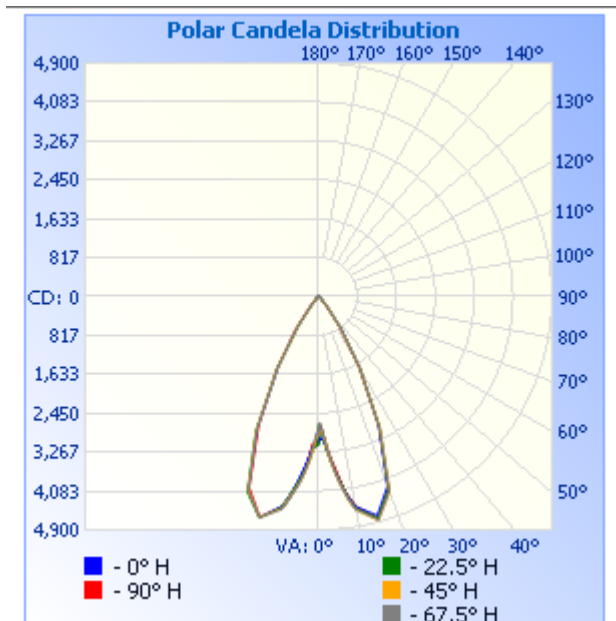
Photometric and Electrical Test Data

Input Voltage: 120 VAC

Base Orientation: Base Up

Lumens (lm)	Watts (W)	Volts (VAC)	Amps (A)	Efficacy	PF	Ithd (%)
3948.56	59.75	120.32	0.50	66.08	0.9970	0.15

Luminous Intensity Summary: Cd



Illumination Cone of Light
Mounting Ht: 10 ft.

	Illuminance at a Distance		
	Center Beam fc	Beam Width	
1.7ft	1,010 fc	1.5 ft	1.7 ft
3.3ft	268 fc	3.0 ft	3.3 ft
5.0ft	117 fc	4.6 ft	4.9 ft
6.7ft	65.0 fc	6.1 ft	6.6 ft
8.3ft	42.4 fc	7.6 ft	8.2 ft
10.0ft	29.2 fc	9.1 ft	9.9 ft

■ Vert. Spread: 49.0°
 ■ Horiz. Spread: 52.6°



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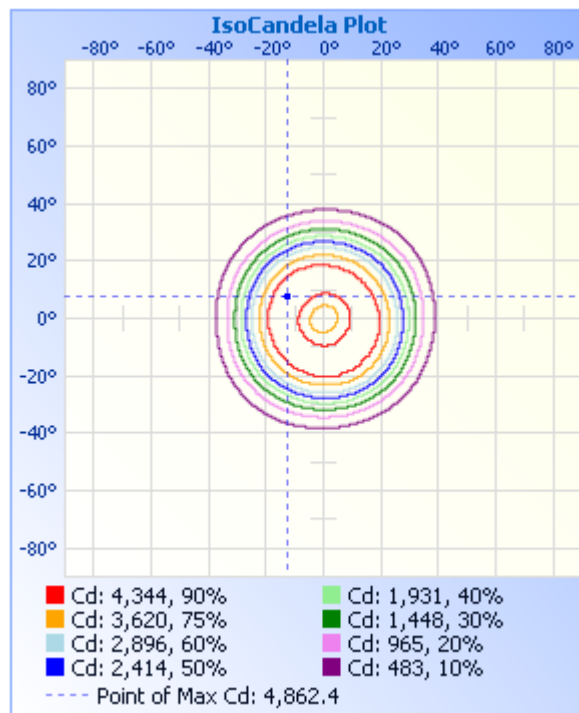
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IsoCandela Plot



Zonal Lumens Summary

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	3,028.6	76.7%
0-40	3,576.8	90.6%
0-60	3,743.3	94.8%
60-90	104.6	2.6%
70-100	66.7	1.7%
90-120	48.6	1.2%
0-90	3,847.9	97.4%
90-180	100.7	2.6%
0-180	3,948.6	100%

Lumens per Zone

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	376.0	9.5%	90-100	17.2	0.4%
10-20	1,299.4	32.9%	100-110	16.2	0.4%
20-30	1,353.2	34.3%	110-120	15.2	0.4%
30-40	548.3	13.9%	120-130	13.9	0.4%
40-50	107.9	2.7%	130-140	12.5	0.3%
50-60	58.6	1.5%	140-150	10.7	0.3%
60-70	55.0	1.4%	150-160	8.2	0.2%
70-80	31.9	0.8%	160-170	5.1	0.1%
80-90	17.6	0.4%	170-180	1.8	0%



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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	2919	2919	2919	2919	2919	2919	2919	2919	2919	2919	2919	2919	2919	2919	2919	2919	2919
0.1	3017	2712	2887	2651	2848	2710	3034	2977	3106	3101	2824	2755	3029	3014	3040	2945	3000
0.2	3015	2719	2880	2655	2836	2711	3029	2966	3108	3105	2841	2772	3033	3022	3043	2940	2998
0.3	3012	2727	2872	2659	2824	2721	3023	2956	3110	3108	2859	2789	3037	3030	3047	2935	2997
0.4	3010	2734	2865	2663	2811	2730	3017	2946	3113	3112	2877	2806	3040	3038	3051	2930	2996
0.5	3007	2741	2857	2667	2799	2739	3012	2935	3115	3115	2895	2823	3044	3047	3055	2925	2995
0.6	3005	2750	2850	2671	2787	2748	3006	2925	3117	3119	2913	2840	3047	3055	3059	2921	2993
0.7	3002	2767	2843	2675	2775	2757	3000	2915	3120	3122	2930	2857	3051	3063	3062	2916	2992
0.8	3000	2783	2835	2679	2762	2766	2995	2904	3122	3126	2948	2874	3054	3071	3066	2911	2991
0.9	2997	2800	2828	2695	2750	2776	2989	2894	3125	3129	2967	2891	3058	3079	3070	2906	2989
1	2995	2816	2821	2713	2738	2785	2983	2884	3127	3133	2987	2908	3062	3088	3074	2901	2988
1.1	2992	2833	2813	2731	2729	2794	2978	2878	3129	3136	3008	2925	3065	3096	3078	2897	2987
1.2	2990	2849	2806	2749	2749	2803	2972	2895	3132	3140	3029	2942	3069	3104	3081	2892	2985
1.3	2987	2866	2799	2767	2769	2812	2966	2912	3134	3143	3049	2964	3072	3112	3085	2887	2984
1.4	2985	2882	2813	2786	2789	2832	2961	2929	3136	3147	3070	2986	3076	3120	3089	2882	2983
1.5	2982	2899	2832	2804	2809	2852	2955	2946	3139	3150	3090	3008	3079	3129	3093	2886	2981
1.6	2980	2916	2852	2822	2829	2872	2950	2964	3141	3154	3111	3030	3083	3137	3096	2909	2980
1.7	2977	2932	2872	2840	2849	2892	2944	2981	3144	3157	3131	3052	3086	3145	3100	2931	2979
1.8	2977	2952	2892	2858	2869	2913	2951	2998	3146	3160	3152	3073	3090	3153	3104	2953	2985
1.9	2996	2973	2911	2876	2889	2933	2970	3015	3148	3164	3173	3095	3094	3161	3108	2975	3005
2	3014	2993	2931	2896	2909	2953	2990	3032	3151	3184	3193	3117	3097	3169	3112	2997	3026
2.1	3033	3014	2951	2919	2928	2973	3010	3049	3153	3205	3216	3139	3101	3178	3115	3019	3046
2.2	3052	3034	2971	2941	2949	2994	3030	3066	3155	3225	3238	3161	3104	3186	3119	3041	3067
2.3	3071	3055	2990	2964	2972	3014	3050	3086	3163	3246	3260	3183	3108	3194	3123	3063	3087
2.4	3090	3075	3010	2986	2995	3034	3070	3106	3182	3266	3283	3207	3111	3202	3127	3086	3107
2.5	3109	3096	3032	3009	3018	3056	3089	3126	3201	3287	3305	3231	3133	3210	3130	3108	3128
2.6	3128	3117	3058	3031	3040	3079	3109	3146	3221	3307	3328	3255	3159	3219	3134	3130	3148
2.7	3146	3137	3084	3054	3063	3102	3129	3167	3240	3328	3350	3279	3184	3227	3138	3152	3169
2.8	3165	3158	3110	3076	3086	3125	3149	3187	3259	3348	3372	3303	3210	3235	3150	3175	3189
2.9	3184	3178	3137	3099	3109	3148	3169	3207	3278	3368	3395	3327	3235	3243	3171	3198	3209
3	3204	3199	3163	3121	3132	3171	3189	3228	3297	3389	3417	3351	3261	3251	3193	3220	3227
3.1	3224	3220	3189	3144	3155	3194	3209	3248	3316	3407	3440	3375	3286	3260	3214	3243	3246
3.2	3244	3241	3215	3169	3178	3217	3229	3268	3335	3425	3460	3399	3312	3272	3235	3265	3264
3.3	3264	3263	3241	3193	3201	3240	3249	3289	3354	3442	3479	3423	3337	3292	3256	3288	3283
3.4	3284	3284	3267	3218	3222	3263	3269	3309	3373	3460	3498	3447	3362	3312	3277	3310	3301
3.5	3304	3305	3293	3243	3242	3286	3289	3329	3392	3477	3517	3470	3388	3332	3299	3333	3320



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3.6	3324	3326	3318	3268	3262	3309	3309	3350	3410	3494	3536	3490	3410	3352	3320	3355	3338
3.7	3344	3347	3341	3292	3281	3329	3330	3370	3428	3512	3555	3511	3431	3372	3341	3378	3357
3.8	3364	3368	3364	3317	3301	3348	3350	3391	3446	3529	3574	3532	3452	3393	3362	3397	3375
3.9	3382	3389	3387	3342	3321	3368	3370	3411	3464	3546	3593	3552	3473	3413	3383	3415	3394
4	3400	3410	3410	3366	3341	3387	3390	3432	3482	3564	3612	3573	3494	3433	3404	3433	3413
4.1	3419	3430	3433	3391	3361	3407	3411	3452	3500	3581	3631	3593	3515	3453	3424	3451	3431
4.2	3439	3450	3456	3416	3381	3426	3433	3473	3518	3598	3650	3614	3536	3473	3445	3470	3450
4.3	3459	3470	3479	3440	3401	3446	3455	3493	3536	3615	3668	3635	3557	3493	3465	3488	3469
4.4	3479	3490	3502	3465	3421	3466	3477	3514	3554	3632	3685	3655	3579	3513	3486	3506	3488
4.5	3498	3510	3525	3489	3440	3485	3498	3534	3572	3649	3703	3676	3600	3533	3506	3524	3507
4.6	3518	3530	3548	3514	3459	3505	3520	3553	3590	3665	3720	3697	3621	3553	3527	3542	3525
4.7	3538	3550	3572	3539	3477	3524	3542	3572	3606	3682	3737	3715	3641	3573	3547	3560	3544
4.8	3558	3570	3593	3563	3495	3543	3564	3591	3623	3699	3754	3734	3658	3593	3568	3579	3563
4.9	3578	3590	3614	3588	3514	3562	3586	3610	3640	3716	3771	3753	3675	3613	3588	3597	3582
5	3597	3610	3634	3612	3532	3582	3608	3629	3657	3733	3788	3771	3693	3632	3609	3614	3601
5.1	3617	3630	3655	3637	3551	3601	3630	3648	3674	3749	3805	3790	3710	3652	3628	3631	3620
5.2	3637	3650	3676	3662	3569	3620	3651	3667	3690	3766	3822	3809	3728	3672	3648	3649	3639
5.3	3657	3669	3696	3686	3587	3639	3672	3686	3707	3783	3839	3828	3745	3692	3668	3666	3658
5.4	3676	3688	3717	3709	3606	3658	3692	3705	3724	3798	3856	3846	3763	3712	3688	3684	3678
5.5	3696	3707	3738	3731	3624	3677	3713	3724	3741	3813	3870	3865	3780	3732	3708	3701	3698
5.6	3715	3726	3758	3752	3643	3696	3734	3743	3757	3828	3885	3884	3797	3752	3727	3719	3717
5.7	3735	3745	3779	3774	3662	3715	3754	3763	3775	3844	3899	3902	3815	3772	3747	3736	3737
5.8	3754	3764	3800	3796	3684	3734	3775	3783	3793	3859	3914	3918	3832	3792	3767	3753	3757
5.9	3774	3783	3820	3817	3707	3753	3796	3803	3812	3874	3928	3933	3850	3812	3787	3771	3776
6	3793	3803	3839	3839	3730	3774	3816	3823	3831	3889	3943	3947	3867	3832	3807	3788	3796
6.1	3813	3822	3858	3860	3752	3794	3837	3843	3849	3904	3957	3962	3885	3852	3826	3808	3816
6.2	3832	3841	3877	3882	3775	3814	3857	3863	3868	3920	3972	3977	3902	3872	3847	3827	3835
6.3	3852	3860	3896	3903	3798	3835	3878	3883	3887	3935	3986	3992	3920	3893	3867	3846	3855
6.4	3871	3879	3915	3925	3820	3855	3895	3903	3906	3950	4000	4007	3937	3913	3887	3866	3875
6.5	3891	3898	3934	3946	3843	3875	3913	3924	3924	3964	4015	4021	3955	3933	3908	3885	3895
6.6	3911	3918	3953	3965	3865	3896	3930	3944	3943	3979	4029	4036	3973	3952	3928	3904	3914
6.7	3930	3937	3972	3984	3888	3916	3947	3964	3962	3993	4042	4051	3990	3969	3948	3924	3934
6.8	3950	3956	3991	4003	3911	3936	3965	3982	3980	4007	4056	4066	4008	3987	3969	3943	3954
6.9	3969	3975	4011	4022	3934	3957	3982	4000	3996	4021	4070	4081	4025	4004	3989	3962	3974
7	3989	3995	4030	4041	3957	3976	3999	4018	4013	4035	4083	4096	4044	4022	4009	3982	3994
7.1	4009	4014	4050	4060	3980	3996	4017	4036	4030	4050	4097	4111	4062	4039	4030	4001	4014
7.2	4028	4033	4071	4079	4003	4015	4034	4054	4046	4064	4111	4126	4081	4057	4050	4021	4034
7.3	4048	4052	4091	4098	4026	4034	4052	4072	4063	4078	4124	4141	4099	4074	4068	4040	4053
7.4	4067	4072	4111	4117	4049	4054	4069	4090	4079	4092	4138	4156	4118	4091	4085	4060	4073
7.5	4086	4093	4131	4136	4072	4073	4086	4107	4096	4107	4152	4172	4136	4109	4102	4080	4092



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7.6	4103	4113	4151	4155	4095	4092	4104	4125	4112	4122	4165	4187	4155	4126	4118	4099	4109
7.7	4120	4134	4171	4173	4118	4112	4121	4143	4129	4138	4180	4202	4173	4144	4135	4119	4127
7.8	4138	4155	4192	4190	4140	4131	4139	4161	4146	4154	4195	4217	4192	4159	4151	4139	4144
7.9	4155	4175	4212	4208	4155	4150	4156	4178	4162	4170	4210	4232	4210	4174	4168	4159	4162
8	4173	4196	4232	4225	4170	4170	4174	4193	4178	4187	4225	4248	4229	4189	4184	4178	4179
8.1	4190	4217	4252	4242	4185	4188	4191	4208	4193	4203	4240	4264	4244	4205	4201	4198	4197
8.2	4207	4238	4268	4260	4200	4206	4209	4224	4208	4219	4255	4281	4258	4220	4218	4218	4214
8.3	4225	4258	4285	4277	4215	4224	4226	4239	4224	4235	4270	4297	4272	4235	4234	4236	4231
8.4	4242	4279	4301	4295	4230	4241	4244	4255	4239	4252	4285	4313	4286	4250	4250	4250	4249
8.5	4259	4299	4318	4312	4245	4259	4262	4270	4254	4268	4300	4330	4300	4265	4265	4265	4266
8.6	4276	4314	4335	4329	4260	4277	4278	4285	4270	4284	4314	4346	4314	4280	4280	4279	4282
8.7	4291	4329	4351	4347	4275	4295	4295	4301	4285	4300	4329	4362	4328	4295	4295	4294	4297
8.8	4306	4344	4368	4362	4290	4312	4311	4316	4301	4316	4344	4379	4342	4310	4310	4309	4311
8.9	4321	4358	4384	4377	4305	4330	4328	4332	4316	4332	4359	4395	4356	4324	4325	4323	4325
9	4336	4373	4401	4393	4319	4348	4344	4347	4331	4347	4374	4411	4370	4338	4340	4338	4339
9.1	4351	4388	4417	4408	4334	4366	4361	4360	4346	4363	4389	4427	4384	4351	4355	4352	4354
9.2	4367	4403	4434	4423	4349	4383	4377	4373	4359	4379	4403	4439	4397	4365	4370	4367	4368
9.3	4382	4418	4449	4439	4364	4397	4394	4387	4373	4394	4418	4451	4409	4378	4385	4382	4382
9.4	4397	4433	4463	4454	4379	4412	4410	4400	4387	4410	4433	4464	4420	4392	4399	4395	4396
9.5	4412	4447	4477	4469	4394	4426	4427	4414	4400	4426	4448	4476	4432	4405	4414	4407	4411
9.6	4427	4462	4491	4484	4409	4440	4443	4427	4414	4441	4462	4488	4444	4419	4426	4419	4425
9.7	4440	4476	4505	4500	4424	4454	4458	4440	4428	4457	4477	4500	4455	4432	4438	4430	4439
9.8	4451	4488	4519	4515	4439	4468	4471	4454	4441	4473	4492	4512	4467	4446	4449	4442	4450
9.9	4463	4500	4533	4528	4454	4483	4484	4467	4455	4485	4506	4525	4479	4459	4461	4454	4461
10	4474	4512	4547	4540	4469	4497	4497	4481	4469	4498	4518	4537	4490	4472	4473	4465	4472
15	4760	4814	4862	4852	4827	4824	4817	4800	4797	4807	4794	4799	4784	4759	4752	4729	4760
20	4231	4296	4358	4349	4304	4307	4307	4337	4341	4366	4328	4309	4264	4204	4187	4192	4236
25	2978	3023	3049	3025	2993	3031	3012	3020	3060	3120	3100	3076	2982	2958	2922	2924	2969
30	1728	1732	1714	1717	1679	1720	1732	1692	1708	1735	1745	1750	1754	1773	1752	1719	1734
35	830	804	794	805	767	784	824	795	775	751	769	787	854	886	874	849	829
40	297	281	274	295	260	261	281	285	253	227	231	255	308	334	331	307	297
45	105	118	122	129	109	100	123	117	115	98	91	96	127	111	103	106	106
50	72	72	74	68	66	67	77	80	70	65	64	65	77	63	63	76	72
55	65	60	60	63	64	64	70	72	63	61	61	64	67	62	63	71	65
60	61	60	61	63	65	63	68	69	63	60	60	61	62	61	60	64	61
65	60	59	60	60	61	60	60	60	60	60	61	61	61	60	60	61	60
70	39	39	39	39	39	40	41	40	40	39	39	40	40	40	40	40	39
75	32	29	29	31	31	33	37	35	33	29	31	35	36	35	35	34	32
80	14	16	16	16	17	18	18	16	15	16	16	16	15	15	15	15	15
85	14	16	16	17	18	20	18	16	16	16	16	15	16	15	15	14	15



LM-79 Distribution Test Report (Luminaire)

Total Luminous Flux, Luminous Intensity Distribution and Electrical Characteristics of Customer Submitted Luminaire

Report No.: PHM-RPT-180412-01

Date: April 12, 2018

CURTIS-STRAUS

90	15	16	16	16	16	19	21	16	16	16	18	16	16	15	15	15	14
95	15	15	15	16	15	16	17	16	16	16	17	17	16	15	15	14	15
100	14	15	15	16	16	16	17	16	16	16	17	16	14	14	13	14	15
105	15	14	15	15	16	16	16	16	16	17	15	15	15	15	14	14	14
110	14	15	15	15	16	17	16	16	15	16	16	16	15	14	14	15	15
115	15	15	15	16	16	16	16	16	16	16	16	15	14	14	14	15	14
120	15	15	15	15	16	16	15	16	15	16	15	15	15	15	16	15	15
125	15	15	15	16	16	17	16	16	16	16	15	15	15	15	15	14	15
130	15	15	15	16	16	16	16	16	16	16	16	15	15	15	15	16	15
135	15	16	16	16	17	16	16	16	16	16	16	17	16	16	16	16	14
140	16	16	16	17	16	17	17	17	17	17	17	16	17	17	16	16	17
145	17	17	17	17	18	17	17	17	17	17	17	17	17	17	16	17	17
150	17	17	17	17	18	17	18	18	18	18	18	18	18	17	17	17	17
155	17	18	17	18	18	18	18	18	18	18	18	18	18	17	18	17	17
160	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	17
165	18	18	18	18	18	19	18	18	19	18	19	18	18	18	18	17	18
170	18	18	19	18	19	19	19	18	20	19	19	18	19	18	18	18	18
175	18	18	19	19	20	19	20	19	20	20	19	19	18	18	18	18	19
180	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19