



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-180223-02
Date: February 23, 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 : 6" RD WW
Model Tested: A6VOFLEDWWU-2035K
WO/CS#: S0461

Report Issue Date: February 23, 2018
Date of Test(s): February 19-22, 2018
Total Number of Pages : 9 (including this page)

Report Reviewed by:

Mark Razvi
Photometric Lab Supervisor
Curtis-Straus



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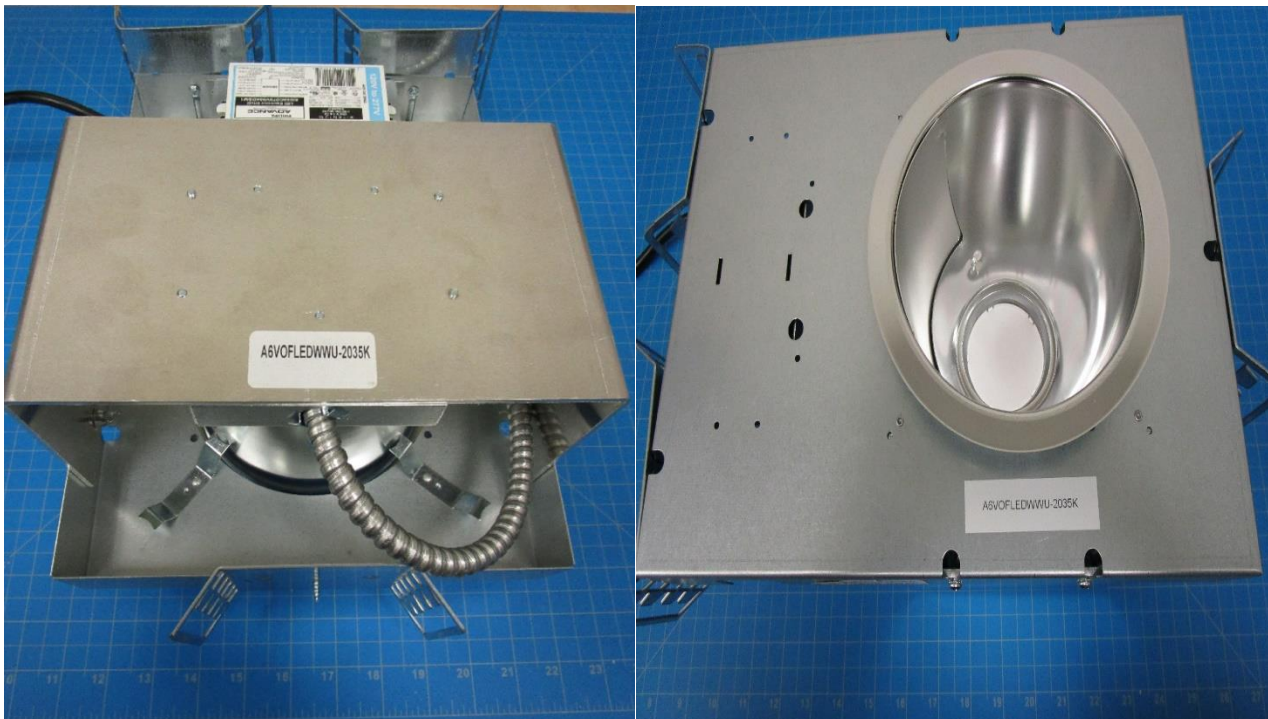
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DETAILED PRODUCT DESCRIPTION

Model #	A6VOFLEDWWU-2035K
CS/WO#	S0461
Description	6" RD WW
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	02-09-18	03-09-18
Digital Thermometer	4627	160739886	2392	09-07-16	09-07-18

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LM-79-2008 Distribution Test Data

Model # A6VOFLEDWWU-2035K
CS/WO# S0461
Description 6" RD WW
Supply Voltage 120VAC

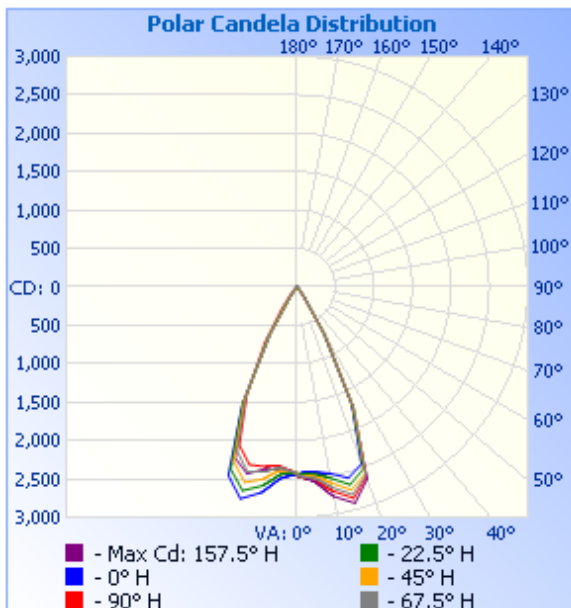
Result of Tests

Photometric and Electrical Test Data

Input Voltage: 120 VAC
 Base Orientation: Base Up

Lumens (lm)	Watts (W)	Volts (VAC)	Amps (A)	Efficacy	PF	lthd (%)
1975.19	26.07	120.28	0.22	75.76	0.9938	0.14

Luminous Intensity Summary: Cd



Illumination Cone of Light
 Mounting Ht: 10 ft.

	Center Beam fc	Beam Width	
1.7ft	844 fc	1.6 ft	1.4 ft
3.3ft	224 fc	3.1 ft	2.8 ft
5.0ft	97.5 fc	4.7 ft	4.3 ft
6.7ft	54.3 fc	6.3 ft	5.7 ft
8.3ft	35.4 fc	7.8 ft	7.1 ft
10.0ft	24.4 fc	9.4 ft	8.5 ft

Vert. Spread: 50.4°
 Horiz. Spread: 46.1°



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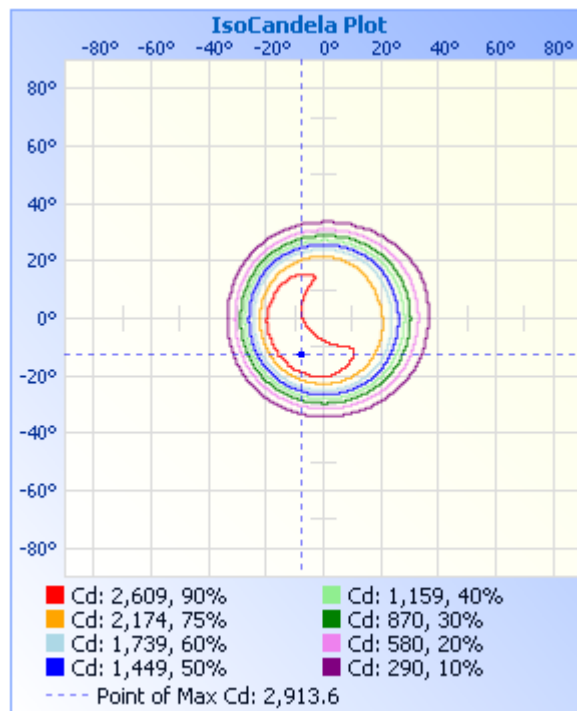
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IsoCandela Plot



Zonal Lumens Summary

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,701.5	86.1%
0-40	1,880.3	95.2%
0-60	1,921.7	97.3%
60-90	19.7	1%
70-100	16.7	0.8%
90-120	14.8	0.7%
0-90	1,941.4	98.3%
90-180	33.8	1.7%
0-180	1,975.2	100%

Lumens per Zone

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	237.9	12.0%	90-100	5.1	0.3%
10-20	734.4	37.2%	100-110	5.0	0.3%
20-30	729.1	36.9%	110-120	4.7	0.2%
30-40	178.8	9.1%	120-130	4.3	0.2%
40-50	28.5	1.4%	130-140	4.0	0.2%
50-60	13.0	0.7%	140-150	4.1	0.2%
60-70	8.1	0.4%	150-160	3.4	0.2%
70-80	6.2	0.3%	160-170	2.3	0.1%
80-90	5.4	0.3%	170-180	0.8	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	2438	2438	2438	2438	2438	2438	2438	2438	2438	2438	2438	2438	2438	2438	2438	2438	2438
0.1	2437	2449	2450	2456	2463	2465	2467	2457	2440	2422	2413	2418	2417	2416	2416	2432	2431
0.2	2436	2449	2450	2457	2464	2467	2468	2458	2441	2422	2413	2417	2416	2415	2415	2430	2430
0.3	2435	2448	2450	2458	2466	2469	2470	2459	2442	2423	2412	2416	2414	2413	2413	2429	2429
0.4	2434	2448	2450	2459	2467	2471	2472	2461	2443	2423	2412	2415	2413	2412	2411	2427	2428
0.5	2432	2447	2451	2460	2469	2473	2473	2462	2444	2423	2412	2414	2412	2410	2410	2426	2427
0.6	2431	2446	2451	2461	2470	2475	2475	2464	2445	2423	2411	2413	2411	2409	2408	2424	2426
0.7	2430	2446	2452	2462	2472	2477	2477	2465	2446	2423	2411	2412	2409	2407	2406	2423	2425
0.8	2429	2445	2452	2463	2473	2479	2479	2466	2447	2424	2410	2412	2408	2406	2405	2421	2424
0.9	2428	2445	2453	2464	2475	2481	2480	2468	2448	2424	2410	2411	2407	2404	2403	2419	2423
1	2427	2444	2453	2465	2476	2482	2482	2469	2449	2424	2410	2410	2406	2403	2402	2418	2422
1.1	2425	2444	2454	2466	2478	2484	2484	2471	2450	2424	2409	2409	2404	2401	2400	2416	2421
1.2	2424	2443	2454	2467	2479	2486	2485	2472	2451	2424	2409	2408	2403	2400	2399	2415	2421
1.3	2423	2443	2454	2467	2480	2487	2487	2473	2452	2424	2408	2407	2402	2398	2397	2413	2420
1.4	2422	2442	2455	2468	2482	2489	2489	2475	2453	2425	2408	2406	2401	2397	2396	2412	2420
1.5	2421	2442	2456	2469	2483	2491	2490	2476	2454	2425	2408	2405	2399	2396	2394	2410	2419
1.6	2420	2441	2456	2470	2485	2492	2492	2478	2455	2425	2407	2404	2398	2395	2393	2408	2419
1.7	2418	2441	2457	2471	2486	2494	2494	2479	2456	2426	2407	2403	2397	2393	2392	2407	2418
1.8	2417	2440	2457	2472	2488	2496	2496	2480	2457	2426	2407	2402	2396	2392	2391	2405	2418
1.9	2416	2440	2458	2473	2489	2497	2498	2482	2458	2427	2406	2402	2394	2391	2390	2404	2417
2	2415	2440	2459	2474	2490	2499	2500	2483	2460	2427	2406	2401	2393	2390	2389	2403	2417
2.1	2415	2440	2459	2475	2492	2501	2502	2485	2461	2428	2405	2400	2392	2389	2388	2402	2416
2.2	2414	2441	2460	2476	2493	2502	2503	2487	2462	2428	2405	2399	2391	2387	2387	2401	2416
2.3	2414	2441	2461	2477	2494	2504	2505	2489	2463	2429	2405	2398	2389	2386	2386	2401	2415
2.4	2414	2441	2461	2478	2496	2505	2507	2491	2464	2429	2404	2397	2388	2385	2385	2400	2415
2.5	2414	2441	2462	2479	2497	2507	2509	2492	2465	2430	2404	2396	2387	2384	2384	2400	2415
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2.7	2413	2441	2463	2481	2500	2510	2513	2496	2467	2431	2403	2394	2384	2381	2382	2398	2414
2.8	2413	2442	2464	2482	2501	2512	2514	2498	2468	2431	2403	2393	2383	2380	2381	2398	2414
2.9	2413	2442	2465	2483	2502	2513	2516	2500	2469	2432	2403	2392	2382	2378	2380	2397	2414
3	2412	2442	2466	2484	2503	2515	2518	2501	2470	2432	2402	2391	2381	2377	2379	2397	2414
3.1	2412	2442	2466	2485	2504	2516	2519	2503	2471	2432	2402	2390	2379	2376	2378	2396	2413
3.2	2412	2443	2467	2486	2505	2518	2521	2505	2473	2433	2401	2389	2378	2375	2378	2396	2413



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3.3	2412	2443	2468	2488	2506	2519	2522	2507	2474	2433	2400	2388	2377	2373	2377	2395	2413
3.4	2412	2443	2468	2489	2508	2521	2524	2509	2475	2433	2400	2386	2376	2372	2376	2395	2413
3.5	2413	2444	2469	2490	2509	2523	2526	2510	2476	2434	2399	2385	2374	2371	2375	2395	2414
3.6	2413	2444	2470	2491	2510	2524	2527	2512	2477	2434	2398	2384	2373	2370	2374	2394	2414
3.7	2413	2445	2471	2491	2511	2526	2529	2514	2478	2435	2398	2383	2372	2369	2373	2394	2414
3.8	2413	2445	2471	2492	2512	2527	2530	2516	2480	2435	2397	2382	2370	2368	2372	2394	2415
3.9	2413	2445	2472	2493	2514	2529	2532	2518	2482	2436	2397	2380	2369	2367	2372	2393	2415
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4.1	2414	2446	2473	2494	2517	2532	2537	2521	2486	2438	2395	2378	2366	2364	2370	2392	2415
4.2	2414	2447	2474	2494	2518	2534	2540	2523	2488	2439	2395	2376	2365	2363	2370	2392	2416
4.3	2414	2447	2475	2495	2520	2536	2542	2525	2490	2440	2396	2375	2364	2362	2369	2392	2416
4.4	2415	2448	2475	2495	2521	2538	2544	2528	2492	2441	2396	2374	2362	2361	2368	2392	2416
4.5	2416	2449	2476	2496	2522	2540	2547	2531	2494	2442	2397	2372	2361	2360	2367	2392	2417
4.6	2417	2449	2477	2496	2524	2543	2549	2533	2496	2443	2398	2371	2359	2359	2367	2392	2418
4.7	2417	2450	2478	2497	2525	2545	2552	2536	2498	2444	2398	2370	2358	2357	2366	2392	2418
4.8	2418	2451	2478	2498	2527	2547	2554	2538	2500	2446	2399	2369	2356	2356	2365	2392	2419
4.9	2419	2452	2479	2500	2528	2549	2557	2541	2502	2447	2399	2369	2354	2354	2365	2392	2420
5	2420	2452	2480	2502	2531	2551	2559	2544	2506	2449	2400	2369	2353	2353	2364	2392	2420
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5.2	2421	2454	2482	2505	2535	2556	2566	2549	2513	2455	2401	2369	2350	2350	2363	2392	2422
5.3	2422	2455	2482	2507	2538	2559	2570	2551	2516	2458	2402	2370	2348	2349	2363	2392	2423
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5.6	2424	2457	2485	2512	2545	2568	2580	2564	2527	2467	2408	2370	2345	2345	2362	2392	2425
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5.8	2426	2459	2486	2515	2549	2574	2587	2572	2534	2473	2412	2370	2344	2342	2361	2393	2427
5.9	2427	2459	2488	2518	2552	2578	2590	2576	2537	2476	2414	2370	2344	2341	2360	2393	2428
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6.2	2430	2462	2493	2526	2561	2587	2602	2589	2550	2486	2419	2374	2343	2338	2358	2394	2430
6.3	2431	2463	2495	2528	2564	2590	2606	2593	2554	2490	2421	2376	2342	2337	2358	2394	2431
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6.5	2432	2465	2499	2533	2570	2598	2614	2602	2563	2498	2426	2378	2341	2335	2357	2394	2433
6.6	2433	2466	2500	2536	2574	2602	2619	2607	2568	2502	2429	2379	2341	2333	2356	2395	2434
6.7	2435	2467	2502	2539	2577	2606	2623	2611	2572	2506	2432	2381	2342	2333	2355	2395	2435
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6.9	2437	2470	2506	2544	2583	2614	2631	2621	2581	2514	2438	2383	2343	2333	2354	2396	2437
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7.1	2439	2473	2511	2550	2590	2621	2640	2630	2590	2521	2444	2386	2345	2333	2353	2396	2439
7.2	2440	2474	2513	2554	2594	2625	2644	2635	2595	2525	2447	2388	2346	2332	2353	2397	2440



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7.3	2441	2475	2516	2557	2597	2629	2648	2639	2599	2529	2449	2390	2346	2332	2352	2397	2441
7.4	2442	2476	2519	2561	2601	2633	2653	2644	2604	2532	2452	2391	2347	2332	2352	2397	2443
7.5	2443	2478	2521	2564	2605	2637	2657	2649	2608	2536	2455	2393	2348	2332	2351	2398	2444
7.6	2444	2480	2524	2568	2609	2641	2662	2654	2613	2540	2458	2395	2348	2332	2351	2398	2445
7.7	2445	2482	2527	2571	2612	2645	2666	2659	2617	2544	2462	2396	2349	2332	2351	2398	2446
7.8	2446	2483	2529	2575	2616	2650	2671	2664	2622	2547	2465	2398	2351	2332	2350	2398	2447
7.9	2447	2485	2532	2579	2620	2654	2675	2669	2627	2551	2468	2400	2352	2333	2350	2399	2448
8	2448	2487	2535	2582	2623	2658	2680	2674	2631	2555	2471	2401	2353	2334	2350	2399	2449
8.1	2449	2489	2537	2586	2627	2662	2684	2679	2636	2558	2475	2403	2354	2334	2349	2399	2449
8.2	2450	2491	2540	2589	2631	2666	2689	2684	2640	2562	2478	2405	2355	2335	2349	2399	2450
8.3	2450	2493	2543	2592	2635	2670	2693	2689	2645	2566	2481	2407	2356	2335	2350	2399	2451
8.4	2451	2495	2546	2596	2639	2674	2698	2694	2649	2569	2484	2409	2357	2336	2350	2400	2452
8.5	2452	2496	2549	2599	2642	2678	2702	2699	2654	2573	2487	2411	2359	2337	2351	2400	2453
8.6	2453	2498	2552	2603	2646	2682	2706	2704	2659	2577	2491	2413	2360	2337	2352	2400	2454
8.7	2454	2500	2554	2606	2650	2686	2711	2709	2663	2581	2494	2415	2361	2338	2352	2400	2455
8.8	2455	2503	2557	2609	2654	2690	2715	2713	2668	2585	2497	2418	2362	2339	2353	2400	2456
8.9	2456	2505	2560	2613	2657	2694	2720	2718	2672	2588	2501	2420	2363	2339	2353	2401	2457
9	2456	2507	2563	2616	2661	2698	2724	2723	2677	2592	2504	2422	2364	2340	2354	2401	2457
9.1	2457	2509	2566	2619	2665	2702	2729	2727	2682	2596	2508	2424	2365	2341	2355	2402	2458
9.2	2458	2511	2569	2623	2669	2706	2733	2732	2686	2600	2511	2426	2367	2342	2355	2402	2459
9.3	2459	2513	2572	2626	2672	2710	2737	2737	2691	2603	2515	2428	2368	2343	2356	2402	2460
9.4	2460	2516	2575	2630	2676	2714	2742	2742	2695	2607	2518	2430	2369	2344	2357	2403	2461
9.5	2460	2518	2578	2633	2680	2718	2746	2746	2699	2611	2522	2432	2370	2344	2358	2403	2461
9.6	2461	2520	2581	2637	2684	2722	2750	2751	2703	2614	2525	2434	2371	2345	2359	2403	2462
9.7	2462	2522	2584	2640	2687	2726	2755	2756	2707	2618	2528	2436	2373	2346	2360	2404	2463
9.8	2463	2524	2587	2644	2691	2730	2759	2760	2711	2622	2532	2438	2374	2347	2362	2404	2464
9.9	2464	2526	2590	2648	2695	2733	2763	2765	2716	2625	2535	2440	2375	2348	2363	2405	2465
10	2464	2528	2592	2651	2698	2737	2767	2769	2720	2629	2538	2442	2376	2349	2364	2406	2465
15	2575	2664	2736	2797	2846	2879	2908	2914	2853	2745	2633	2491	2395	2374	2437	2517	2575
20	2450	2521	2585	2612	2631	2644	2653	2662	2612	2523	2415	2280	2194	2191	2265	2366	2456
25	1687	1702	1743	1746	1724	1710	1688	1695	1687	1671	1625	1576	1550	1565	1612	1648	1690
30	720	711	733	722	709	692	691	681	693	695	746	792	841	843	804	766	730
35	175	166	162	154	152	145	139	146	147	158	210	294	343	348	273	198	176
40	38	33	31	30	29	28	27	27	29	36	65	127	152	157	113	54	39
45	22	19	18	18	17	17	17	16	17	21	37	70	82	85	63	31	22
50	14	12	12	11	11	11	11	11	11	13	22	38	46	46	35	19	14
55	11	10	10	10	9	9	9	9	9	10	15	23	27	27	22	13	11
60	9	8	8	8	8	8	8	8	8	8	10	14	16	16	14	10	9
65	8	7	7	7	7	7	7	7	7	7	8	10	11	11	10	8	7
70	7	7	7	6	6	6	6	6	6	6	6	7	8	8	8	7	7



LM-79 Distribution Test Report (Luminaire)

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

Report No.: PHM-RPT-180223-02

Date: February 23, 2018

CURTIS-STRAUS

75	6	6	6	6	6	6	6	6	5	5	5	6	6	6	6	6	6
80	6	6	6	5	5	5	5	5	5	5	5	5	5	5	6	6	6
85	5	5	5	5	5	5	5	5	5	4	4	5	5	5	5	5	5
90	5	5	5	5	5	5	5	5	4	4	4	4	5	5	5	5	5
95	5	5	5	5	5	5	5	4	5	4	4	4	4	4	5	5	5
100	5	5	5	5	5	5	5	4	5	4	4	4	5	5	5	5	5
105	5	5	5	5	5	5	5	4	4	4	4	4	5	5	5	5	5
110	5	5	5	5	5	5	5	5	5	4	4	4	4	5	5	5	5
115	5	5	5	5	5	5	5	5	4	4	4	5	5	5	5	5	5
120	5	5	5	5	5	5	5	5	4	4	4	4	5	5	5	5	5
125	5	5	5	5	5	5	5	5	4	4	4	4	5	5	5	5	5
130	5	5	5	5	5	5	5	5	4	4	5	4	5	5	5	5	5
135	5	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5
140	6	6	6	6	6	6	6	6	6	6	5	5	5	6	6	6	6
145	7	7	7	7	7	7	7	6	6	6	6	6	6	7	7	7	7
150	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
155	8	8	8	8	8	7	8	7	7	7	7	7	7	7	8	8	8
160	8	8	8	8	8	8	8	8	8	7	7	8	8	7	8	8	8
165	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	9
170	9	9	9	9	9	9	9	9	9	8	8	8	8	8	9	9	9
175	9	9	9	9	9	9	9	9	9	9	9	8	9	9	9	9	9
180	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9