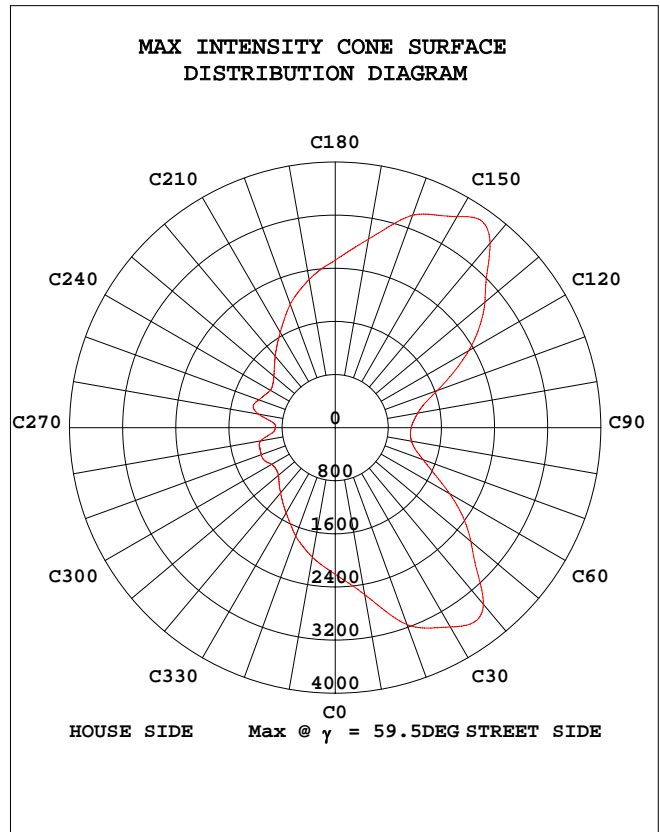
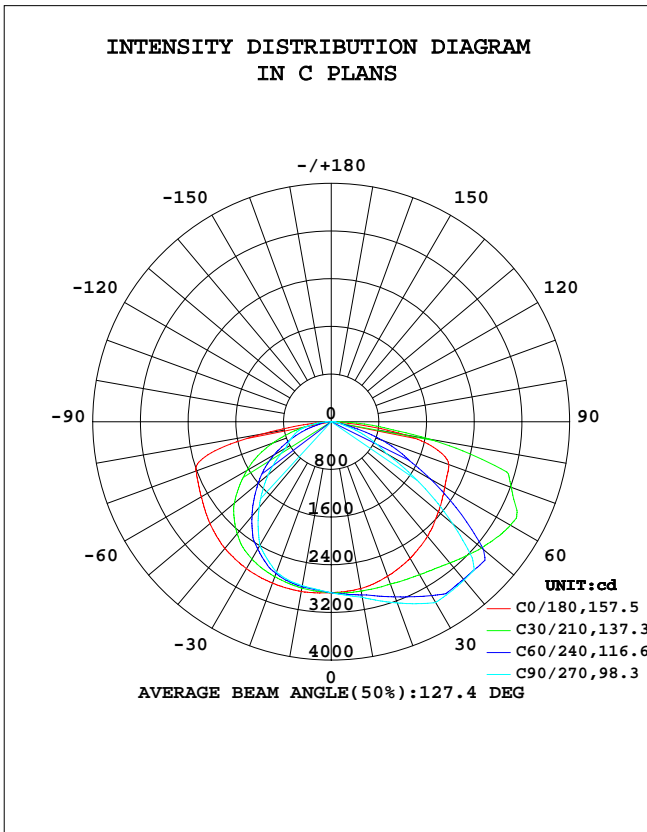


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.7762A P:93.02W PF:0.9946 Lamp Flux:11355.2x1 lm		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.08 lm/W			
MODEIASD-LED-SBRR-95N50-EX39		I _{max} (cd)	3816	η street_up(%)	0.0
NOMINAL POWER(W)	95	LOR(%)	100.0	η street_down(%)	60.7
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	11355	η house_up(%)	0.0
NOMINAL FLUX(lm)	11355.2	MAXIMUM @(C,γ)	145,59.5	η house_down(%)	39.3
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	120	η down(%)	100.0	SLI	23.967



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-03

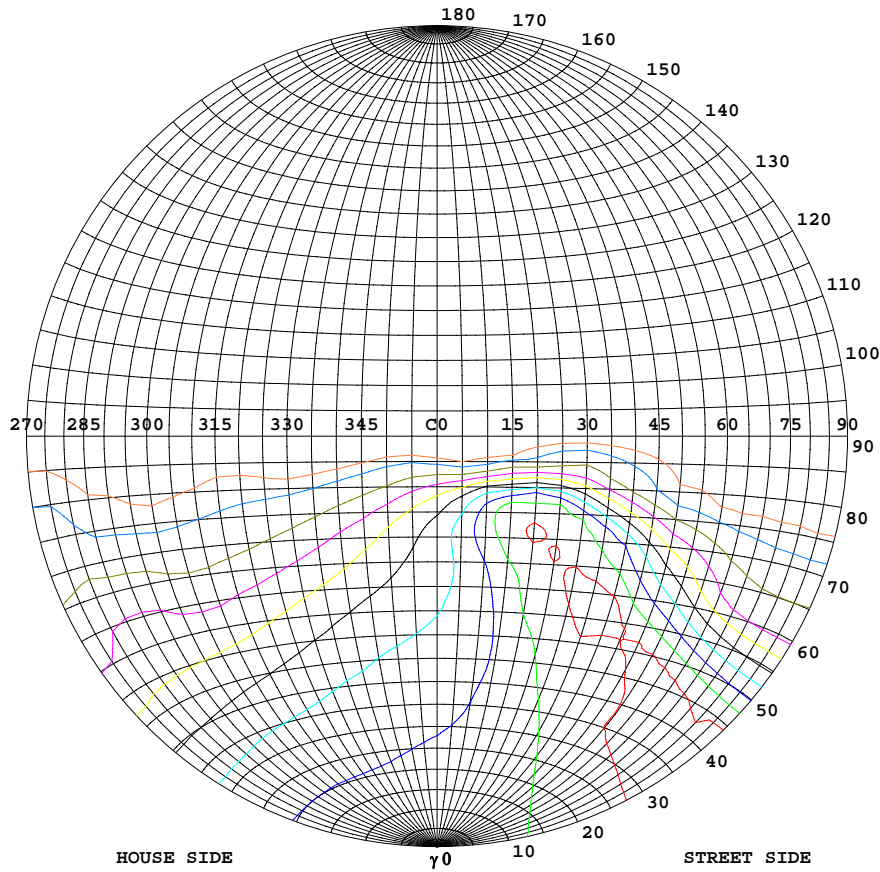
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

Note: SLI:Specific Luminaire Index

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.5V I:0.7762A P:93.02W PF:0.9946 Lamp Flux:11355.2x1 lm		



Classification:

IES:Type IV - Short
 CIE:Average - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:200.4cd/klm
 Max.At90:3.057cd/klm
 Max.80-90:200.4cd/klm

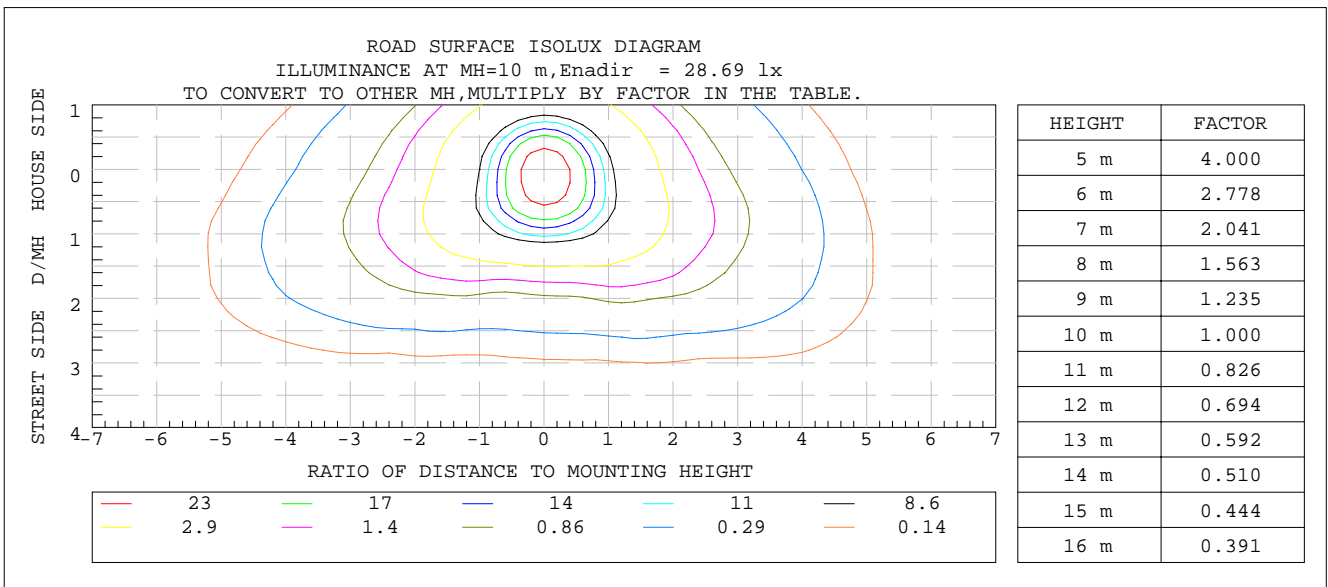
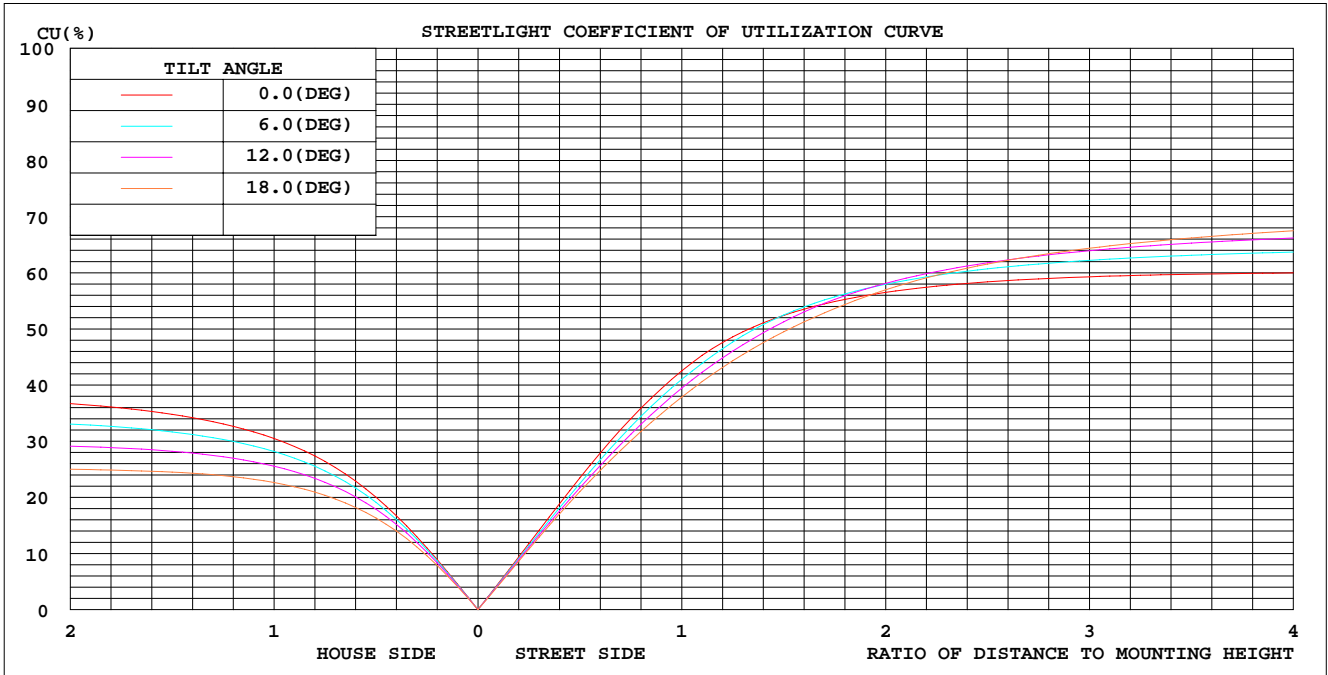
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3816
90%	3434
80%	3053
70%	2671
60%	2290
50%	1908
40%	1526
30%	1145
20%	763
10%	382
5%	191

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2016-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity: 65.0%
Test Distance: 7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:120.5V I:0.7762A P:93.02W PF:0.9946 Lamp Flux:11355.2x1 lm		

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	*lum,lamp
5	2857	2894	2921	2914	2882	2841	2823	2827	0- 5	68.61	68.61	0.60,0.60
10	2843	2919	2990	2965	2890	2818	2793	2783	5- 10	205.5	274.1	2.41,2.41
15	2808	2958	3109	3028	2890	2783	2754	2741	10- 15	341.5	615.5	5.42,5.42
20	2760	3021	3234	3117	2881	2741	2688	2678	15- 20	475.5	1091	9.61,9.61
25	2704	3095	3368	3219	2869	2672	2542	2589	20- 25	604.9	1696	14.9,14.9
30	2646	3186	3502	3329	2846	2564	2396	2464	25- 30	727.0	2423	21.3,21.3
35	2579	3287	3485	3445	2814	2430	2140	2309	30- 35	837.2	3260	28.7,28.7
40	2511	3390	3467	3553	2775	2273	1884	2134	35- 40	926.7	4187	36.9,36.9
45	2432	3403	3372	3577	2719	2044	1628	1898	40- 45	998.2	5185	45.7,45.7
50	2350	3428	2655	3614	2655	1799	1379	1659	45- 50	1037	6222	54.8,54.8
55	2272	3387	1860	3587	2586	1546	1130	1418	50- 55	1023	7245	63.8,63.8
60	2199	2965	1066	3181	2517	1269	881.4	1173	55- 60	967.7	8213	72.3,72.3
65	2144	2529	776.4	2807	2461	983.5	777.0	901.7	60- 65	889.8	9103	80.2,80.2
70	2098	1993	487.1	2252	2416	716.5	672.5	649.1	65- 70	807.9	9911	87.3,87.3
75	1851	1187	220.9	1335	2141	491.8	559.7	436.2	70- 75	686.6	10597	93.3,93.3
80	1243	393.6	138.7	445.1	1152	280.9	380.4	244.0	75- 80	476.8	11074	97.5,97.5
85	285.0	219.1	79.59	248.4	269.7	159.2	192.8	135.8	80- 85	223.5	11298	99.5,99.5
90	16.05	11.74	20.47	7.098	11.48	34.71	5.126	21.88	85- 90	57.55	11355	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

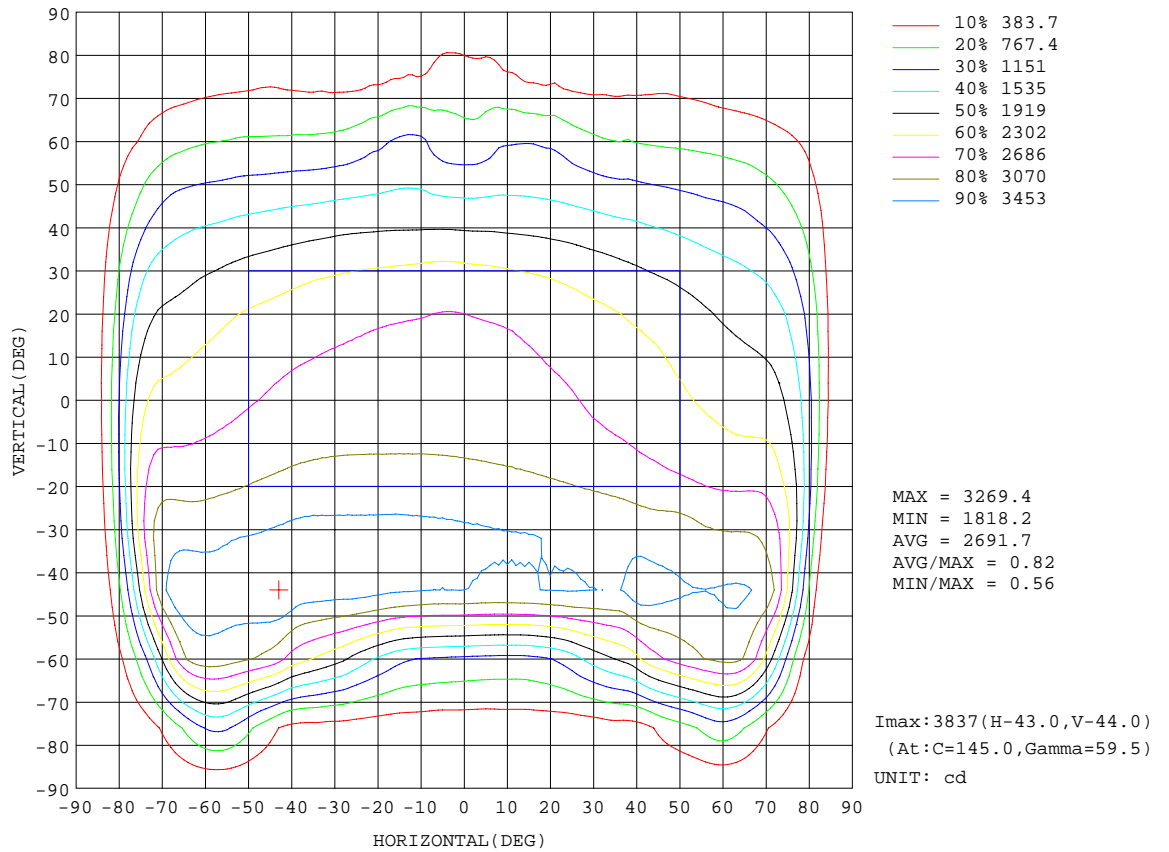
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

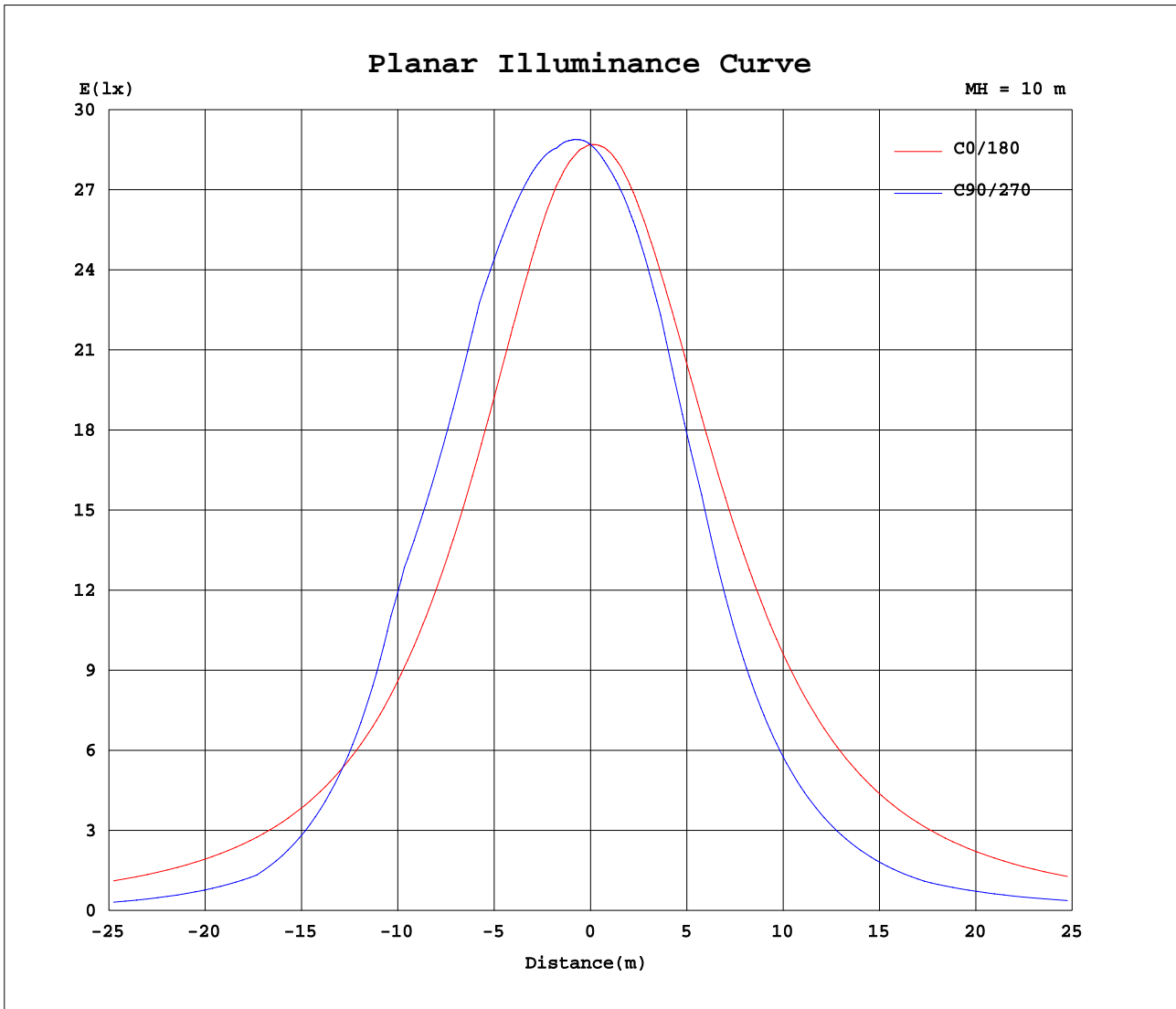
Test:U:120.5V I:0.7762A P:93.02W PF:0.9946 Lamp Flux:11355.2x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-03

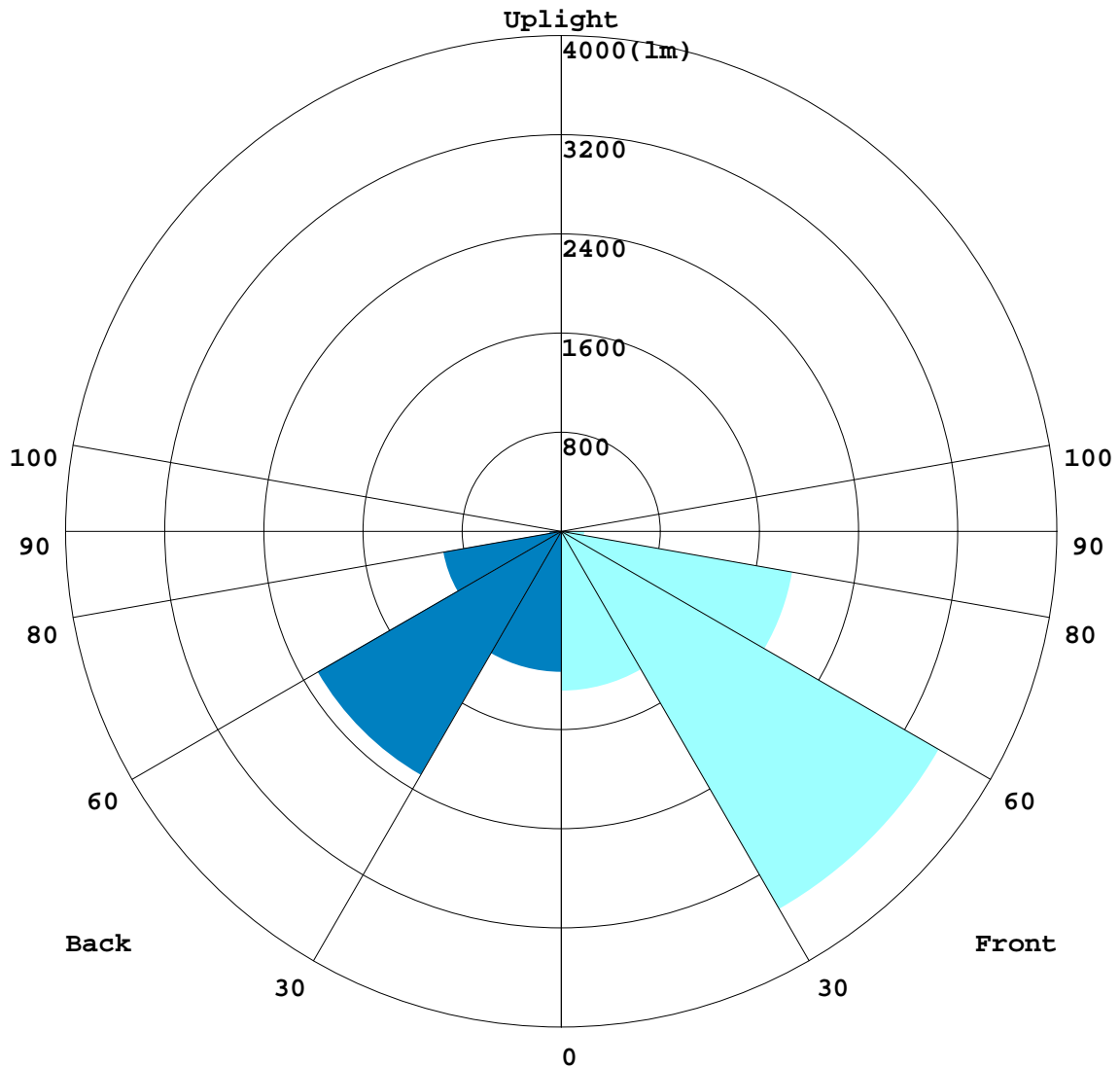
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:120.5V I:0.7762A P:93.02W PF:0.9946 Lamp Flux:11355.2x1 lm		

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:120.5V I:0.7762A P:93.02W PF:0.9946 Lamp Flux:11355.2x1 lm		

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1287.3	11.3
FM - Front-Medium(30-60)	3520.7	31.0
FH - Front-High(60-80)	1894.8	16.7
FVH - Front-Very High(80-90)	187.43	1.7
Total Forward Light	6890.3	60.7

BL - Back-Low(0-30)	1135.7	10.0
BM - Back-Medium(30-60)	2269.3	20.0
BH - Back-High(60-80)	966.36	8.5
BVH - Back-Very High(80-90)	93.584	0.8
Total Back Light	4464.9	39.3

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B3-U0-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4464.9	0	4464.9
Street Side	6890.3	0	6890.3

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-03

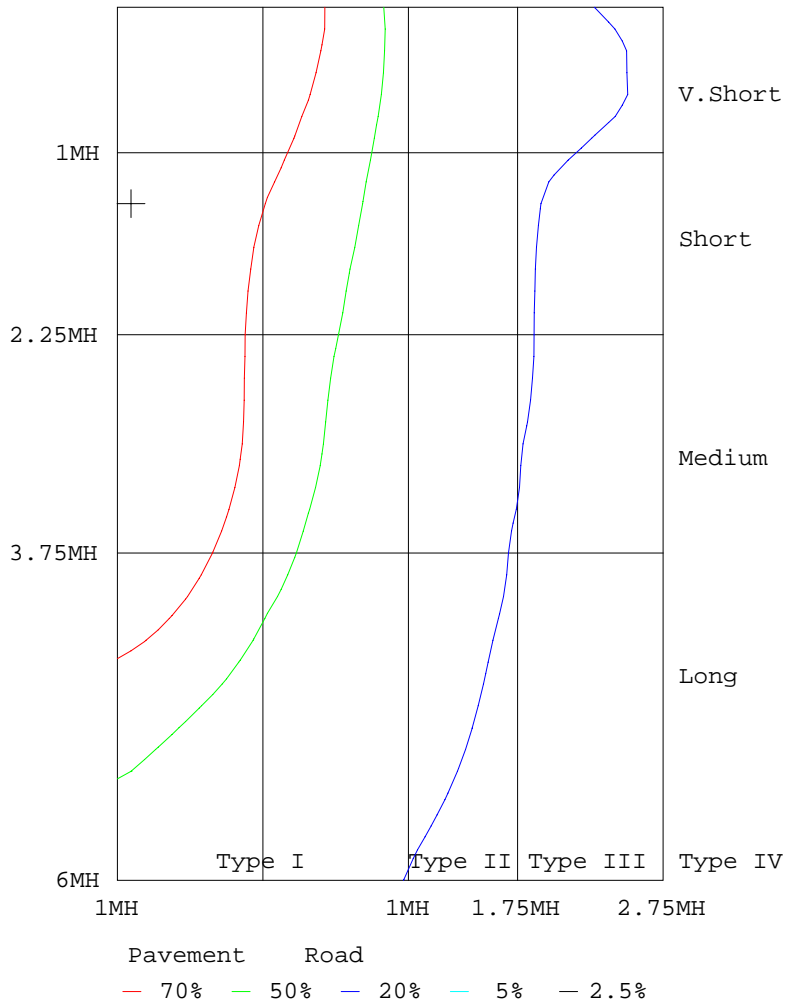
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:120.5V I:0.7762A P:93.02W PF:0.9946 Lamp Flux:11355.2x1 lm		

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.7762A P:93.02W PF:0.9946 Lamp Flux:11355.2x1 lm	

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869
5	2857	2860	2864	2868	2872	2877	2881	2885	2889	2894	2898	2901	2904	2907	2911	2916	2919	2921	2921
10	2843	2849	2855	2861	2868	2876	2886	2895	2907	2919	2930	2941	2951	2960	2968	2975	2980	2985	2990
15	2808	2817	2827	2837	2853	2871	2893	2912	2932	2958	2983	3007	3028	3047	3065	3080	3092	3100	3109
20	2760	2773	2786	2806	2835	2866	2899	2942	2984	3021	3060	3096	3126	3155	3179	3202	3215	3225	3234
25	2704	2723	2745	2779	2820	2870	2928	2985	3041	3095	3146	3194	3238	3275	3306	3329	3347	3360	3368
30	2646	2674	2710	2759	2816	2889	2962	3040	3113	3186	3254	3316	3368	3407	3439	3464	3484	3497	3502
35	2579	2621	2675	2738	2821	2917	3015	3112	3204	3287	3365	3438	3462	3471	3467	3468	3472	3480	3485
40	2511	2562	2635	2724	2834	2963	3093	3216	3318	3390	3415	3437	3452	3456	3452	3448	3446	3458	3467
45	2432	2498	2592	2704	2855	3026	3189	3333	3384	3403	3430	3455	3459	3453	3440	3429	3379	3365	3372
50	2350	2438	2557	2716	2922	3127	3295	3396	3392	3428	3448	3458	3334	3115	2921	2784	2694	2652	2655
55	2272	2391	2543	2755	3057	3288	3388	3525	3576	3387	3171	2904	2613	2336	2125	1978	1891	1855	1860
60	2199	2348	2558	2856	3157	3334	3471	3577	3421	2965	2612	2292	1922	1572	1327	1166	1087	1057	1066
65	2144	2350	2657	3026	3256	3416	3425	3248	2990	2529	2084	1720	1355	1040	881	795	770	763	776
70	2098	2419	2855	3226	3472	3397	3213	2975	2604	1993	1468	1181	910	689	577	513	492	478	487
75	1851	2258	2835	3374	3283	3240	2839	2224	1683	1187	762	580	405	302	263	240	231	215	221
80	1243	1482	1959	2115	2275	2065	1652	1118	706	394	216	201	155	143	148	144	143	135	139
85	285	185	292	460	478	662	693	501	341	219	116	106	82.7	75.2	80.4	80.5	81.6	77.7	79.6
90	16.1	18.0	17.2	15.6	13.9	12.5	10.8	10.8	11.9	11.7	9.82	9.08	8.65	7.66	12.7	17.1	19.7	20.8	20.5

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-03
 γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.7762A P:93.02W PF:0.9946 Lamp Flux:11355.2x1 lm																	

Table--3 UNIT: cd

C (DEG) \ γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869
5	2873	2868	2864	2859	2854	2849	2845	2841	2838	2835	2832	2830	2828	2826	2825	2824	2823	2822	2821
10	2870	2860	2851	2842	2834	2827	2822	2818	2815	2812	2812	2809	2808	2807	2803	2798	2793	2789	2786
15	2854	2838	2825	2813	2804	2796	2789	2783	2778	2774	2773	2774	2774	2771	2766	2761	2754	2748	2744
20	2832	2811	2794	2780	2767	2758	2749	2741	2730	2719	2710	2706	2706	2708	2705	2698	2688	2679	2674
25	2808	2781	2757	2738	2723	2708	2691	2672	2655	2630	2606	2588	2578	2573	2567	2556	2542	2532	2531
30	2778	2742	2709	2686	2661	2633	2606	2564	2527	2494	2467	2448	2435	2430	2425	2413	2396	2386	2385
35	2732	2687	2652	2615	2579	2528	2475	2430	2389	2354	2301	2256	2220	2195	2177	2159	2140	2136	2143
40	2673	2623	2574	2523	2453	2387	2332	2273	2197	2128	2070	2020	1976	1944	1922	1902	1884	1883	1896
45	2605	2543	2467	2383	2304	2238	2131	2044	1964	1895	1833	1784	1737	1696	1670	1646	1628	1634	1651
50	2518	2434	2322	2218	2123	2002	1894	1799	1725	1656	1598	1567	1556	1538	1468	1401	1379	1395	1459
55	2397	2293	2158	2031	1882	1757	1646	1546	1462	1396	1364	1362	1391	1402	1299	1159	1130	1163	1290
60	2251	2106	1957	1785	1633	1499	1378	1269	1179	1119	1101	1147	1205	1265	1157	923	881	934	1122
65	2083	1901	1698	1520	1363	1212	1086	983	894	835	823	876	929	990	933	817	777	808	901
70	1864	1626	1422	1209	1041	912	793	717	651	603	568	585	623	682	668	707	673	680	667
75	1524	1264	1026	833	703	620	552	492	420	375	324	308	330	383	400	585	560	546	437
80	813	671	542	451	382	324	294	281	231	207	182	175	200	237	252	397	380	370	284
85	245	208	149	140	149	151	155	159	131	114	101	95.8	106	122	128	202	193	188	144
90	15.4	16.1	16.4	17.0	17.7	19.6	30.4	34.7	27.0	23.4	20.5	18.2	13.3	9.11	6.35	6.95	5.13	5.26	6.11

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.7762A P:93.02W PF:0.9946 Lamp Flux:11355.2x1 lm																	

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869	2869				
5	2822	2823	2823	2823	2824	2825	2827	2829	2832	2834	2837	2841	2844	2848	2852				
10	2782	2780	2780	2778	2780	2782	2783	2785	2788	2792	2798	2804	2813	2822	2833				
15	2741	2740	2739	2740	2740	2739	2741	2743	2743	2747	2750	2757	2766	2779	2793				
20	2671	2671	2671	2672	2676	2677	2678	2680	2683	2688	2695	2702	2713	2727	2743				
25	2533	2537	2545	2556	2570	2583	2589	2597	2606	2614	2624	2637	2652	2670	2687				
30	2384	2385	2392	2404	2420	2439	2464	2494	2508	2521	2536	2557	2580	2605	2626				
35	2152	2170	2197	2232	2268	2285	2309	2340	2373	2412	2436	2464	2496	2525	2552				
40	1907	1929	1958	1994	2034	2081	2134	2172	2216	2267	2323	2361	2407	2441	2471				
45	1663	1689	1720	1755	1798	1844	1898	1967	2043	2095	2161	2233	2301	2352	2386				
50	1483	1499	1512	1530	1559	1604	1659	1731	1817	1914	1995	2085	2177	2240	2294				
55	1321	1338	1340	1321	1321	1353	1418	1505	1589	1691	1812	1917	2035	2114	2194				
60	1161	1170	1156	1082	1065	1090	1173	1253	1354	1458	1576	1716	1841	1965	2082				
65	905	908	897	823	798	825	902	978	1080	1199	1326	1475	1648	1811	1974				
70	616	609	591	556	564	607	649	700	795	906	1048	1220	1404	1623	1849				
75	336	319	303	301	337	384	436	490	537	606	715	874	1051	1304	1583				
80	207	196	169	163	179	202	244	267	280	303	373	479	614	783	1023				
85	108	106	92.2	91.3	99.2	113	136	137	128	104	97.4	94.2	166	280	355				
90	9.64	14.2	17.2	18.7	19.6	20.4	21.9	20.6	20.5	21.1	21.5	20.8	19.6	18.0	15.5				

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 5.0DEG γ Interval: 0.5DEG
 Test Speed: HIGH Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Temperature:25DEG Humidity:65.0%
 Operators: Test Distance:7.850m [K=1.0000]
 Test Date:2016-08-03 Remarks: