

Luminaire Photograph

LED STREET LIGHT SL880 LED
FEELIGHT TECH CO., LIMITED



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:IVY
Test Date:2011-12-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65%
Test Distance:9.900m [K=1.0000]
Remarks: SL880-160W, 90LM/W

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

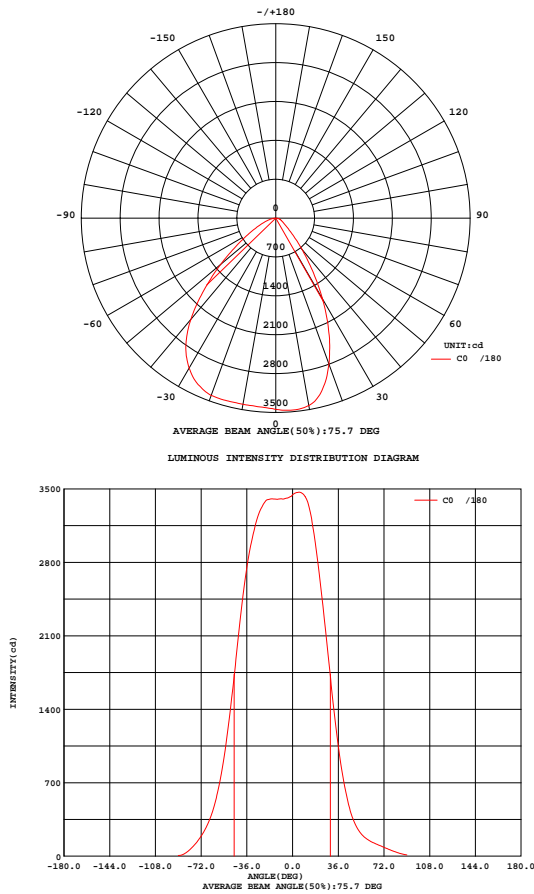


Fig. C0/C180

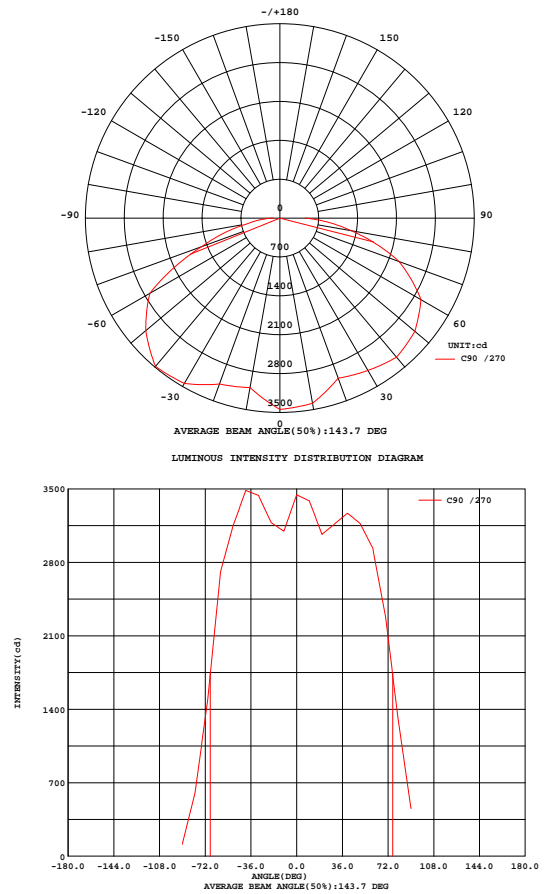


Fig. C90/C270

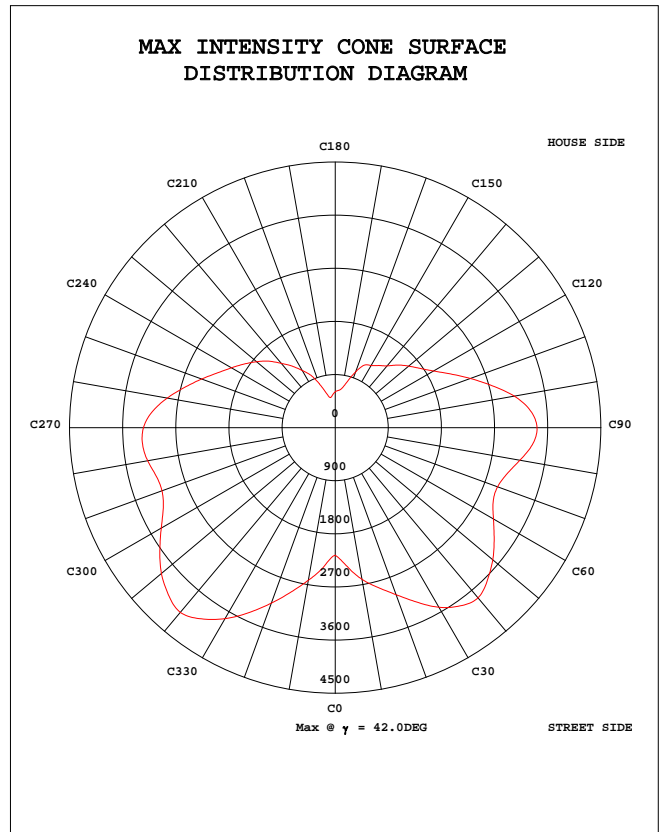
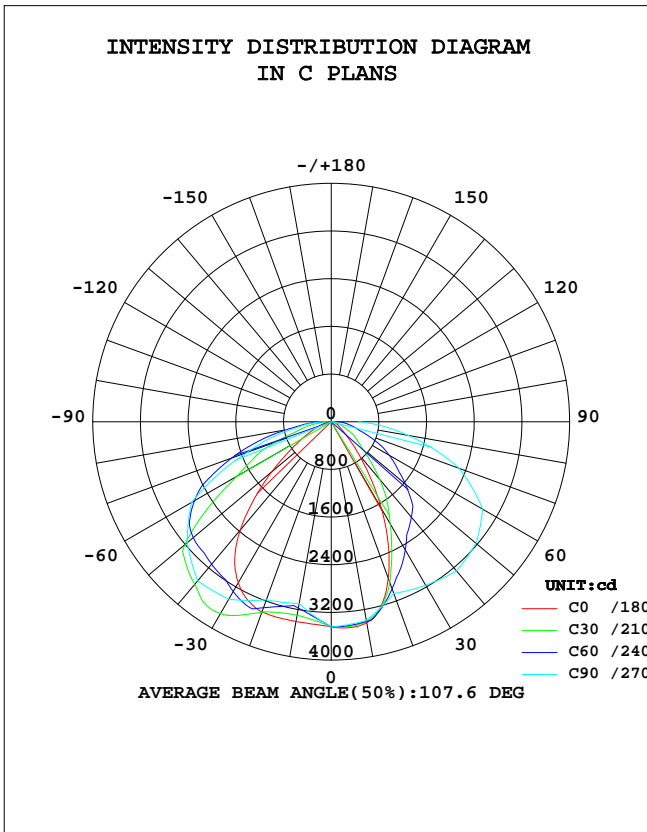
C Range: 0 - 360DEG
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Temperature:30DEG
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Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65%
Test Distance:9.900m [K=1.0000]
Remarks: SL880-160W, 90LM/W

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:222.8V I:0.7450A P:160.5W PF:0.9680 Lamp Flux:11200x1 lm		
NAME: LED STREET LIGHT	TYPE:SL880	WEIGHT:18.1KG
DIMENSION:	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.15 lm/W			
MODEL	SL880-160W	I _{max} (cd)	4084	η street_up(%)	0.0
NOMINAL POWER(W)	162	EFFICIENCY(%)	90.5	η street_down(%)	60.9
RATED VOLTAGE(V)	224	TOTAL FLUX(lm)	10136	η house_up(%)	0.0
NOMINAL FLUX(lm)	11200	MAXIMUM @(C,γ)	320,42.0	η house_down(%)	29.6
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.0010
TEST VOLTAGE(V)	223.5	η down(%)	90.5	SLI	17.301



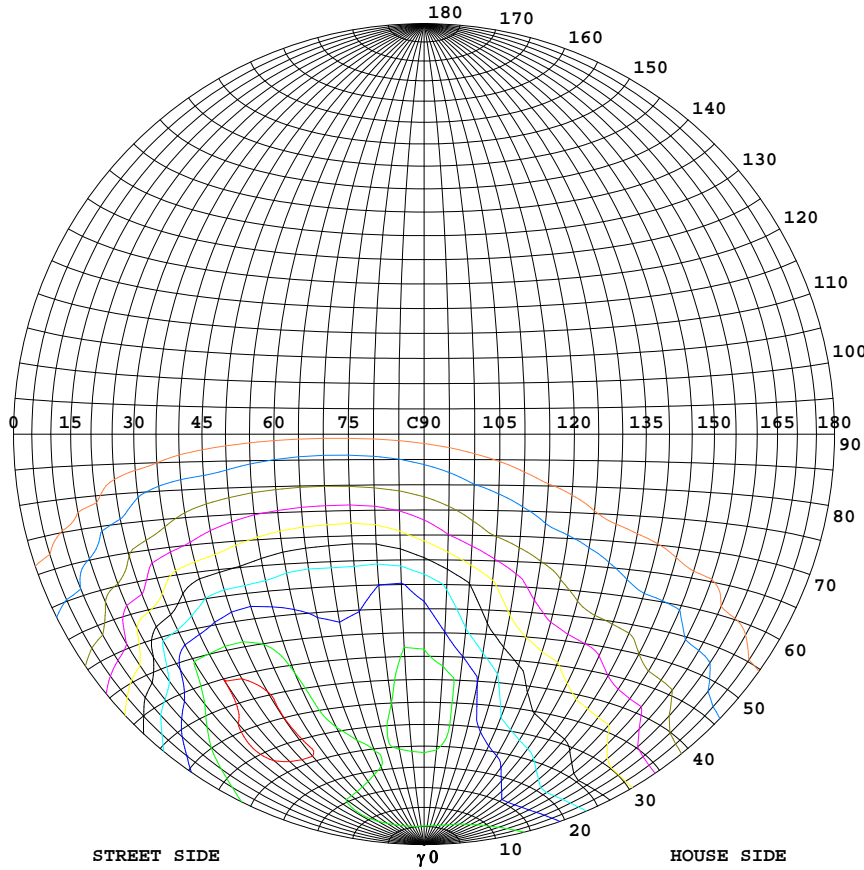
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:IVY
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γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B SYSTEM V1.0.250
 Humidity:65%
 Test Distance:9.900m [K=1.0000]
 Remarks: SL880-160W, 90LM/W

Note: SLI:Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:222.8V I:0.7450A P:160.5W PF:0.9680 Lamp Flux:11200x1 lm		
NAME: LED STREET LIGHT	TYPE:SL880	WEIGHT:18.1KG
DIMENSION:	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:



Classification:

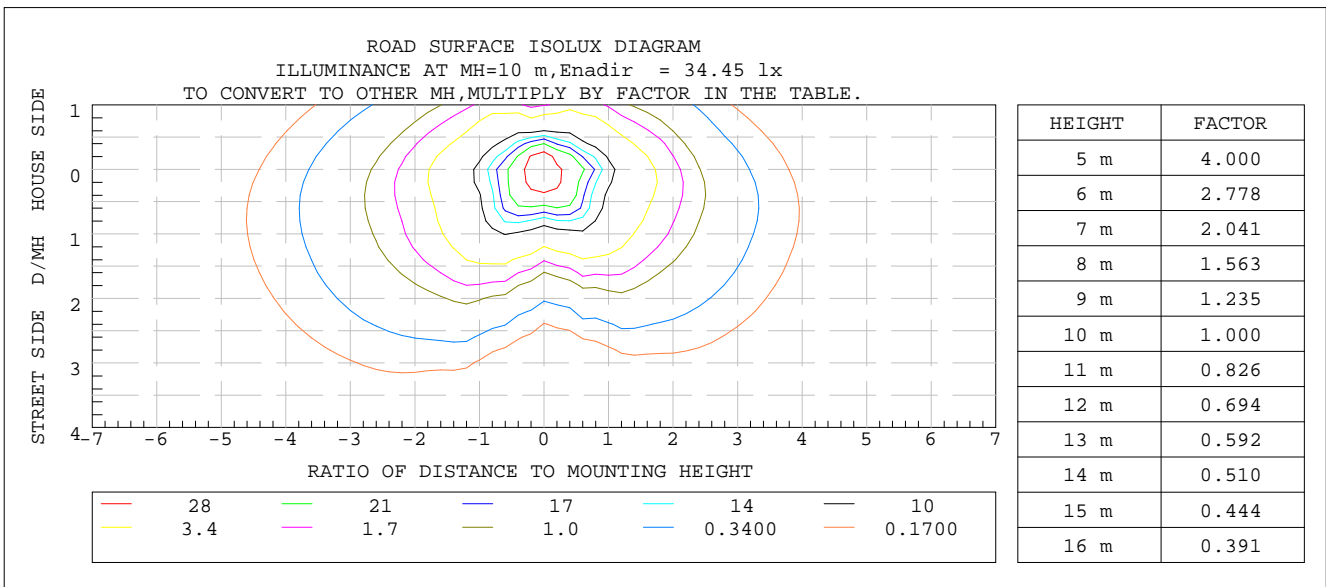
IES:Type IV - Very Short
 CIE:Average - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:148.7cd/klm
 Max.At90:53.78cd/klm
 Max.80-90:148.7cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4084
90%	3676
80%	3267
70%	2859
60%	2450
50%	2042
40%	1634
30%	1225
20%	817
10%	408
5%	204

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 Test System:EVERFINE GO-2000B SYSTEM V1.0.250
 Humidity:65%
 Test Distance:9.900m [K=1.0000]
 Remarks: SL880-160W, 90LM/W

**COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM**



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γ Range: 0 - 90DEG
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 Test System: EVERFINE GO-2000B SYSTEM V1.0.250
 Humidity: 65%
 Test Distance: 9.900m [K=1.0000]
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ZONAL FLUX DIAGRAM

Test:U:222.8V I:0.7450A P:160.5W PF:0.9680 Lamp Flux:11200x1 lm		
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DIMENSION:	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:

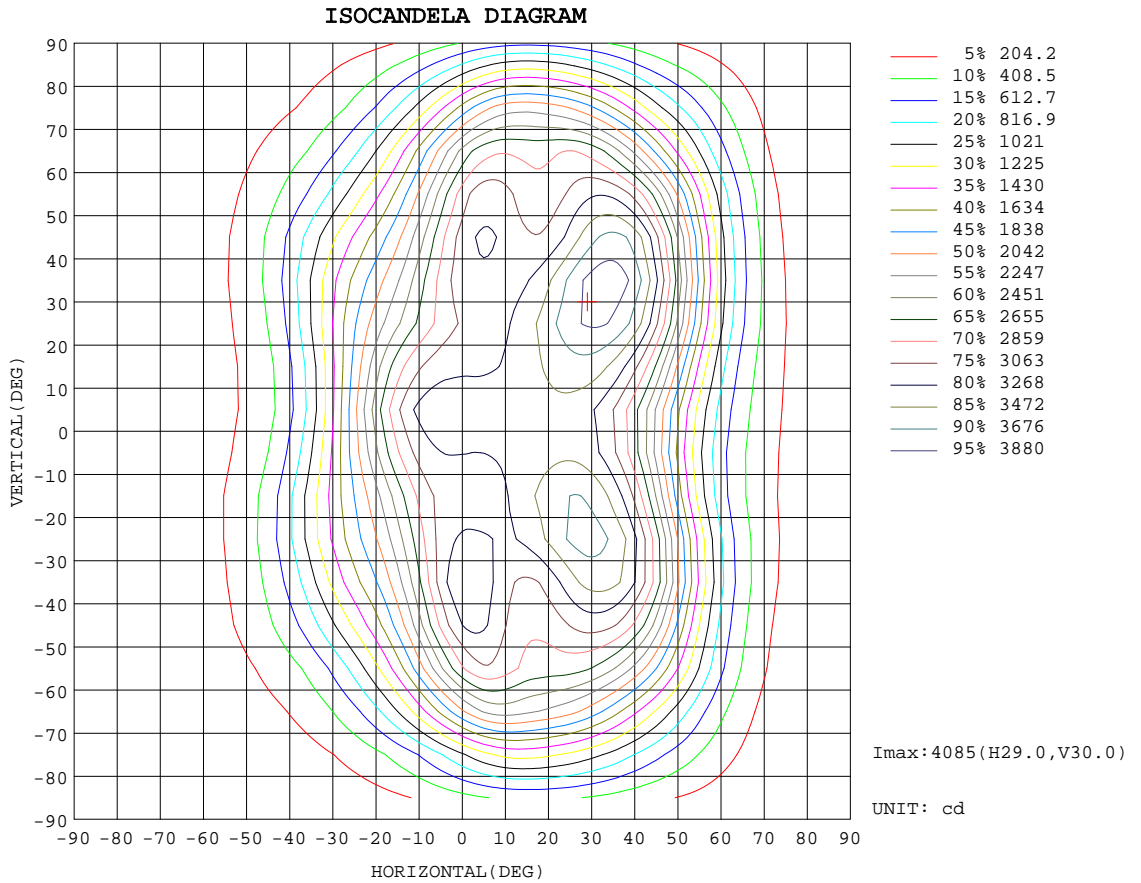
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%
5	3411	3312	3271	3331	3469	3440	3415	3398	0- 5	81.27	81.27	0.80
10	3405	3235	3097	3169	3426	3404	3385	3372	5- 10	238.9	320.2	3.16
15	3404	3244	3137	2930	3216	3264	3226	3358	10- 15	386.7	706.9	6.97
20	3397	3412	3178	2732	2797	2943	3067	3397	15- 20	520.5	1227	12.11
25	3307	3628	3308	2477	2263	2591	3117	3521	20- 25	639.4	1867	18.42
30	3117	3704	3438	2168	1691	2271	3167	3678	25- 30	740.8	2608	25.73
35	2825	3683	3461	1860	1151	1956	3217	3843	30- 35	817.3	3425	33.79
40	2378	3692	3485	1591	735.1	1676	3268	4007	35- 40	872.9	4298	42.40
45	1822	3553	3318	1365	453.4	1479	3220	3987	40- 45	901.9	5200	51.30
50	1292	3326	3151	1141	290.0	1304	3171	3938	45- 50	895.4	6095	60.13
55	857.3	2996	2928	782.8	199.8	963.2	3052	3702	50- 55	856.2	6951	68.58
60	556.6	2584	2704	499.6	152.1	684.1	2933	3389	55- 60	794.7	7746	76.42
65	357.8	1978	2097	360.6	121.1	508.5	2608	2749	60- 65	707.5	8454	83.40
70	228.5	1427	1490	242.9	94.97	360.6	2283	2095	65- 70	585.3	9039	89.18
75	139.0	1001	1047	136.4	69.32	224.8	1792	1547	70- 75	455.3	9494	93.67
80	72.19	594.6	604.3	85.32	45.62	155.7	1302	980.6	75- 80	323.2	9817	96.86
85	24.10	289.3	358.9	47.65	25.25	101.2	877.6	547.5	80- 85	205.0	10022	98.88
90	7.161	92.13	113.5	17.43	12.18	52.04	453.2	271.9	85- 90	113.4	10136	100.00
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:30DEG
 Operators:IVY
 Test Date:2011-12-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B SYSTEM V1.0.250
 Humidity:65%
 Test Distance:9.900m [K=1.0000]
 Remarks: SL880-160W, 90LM/W

ISOCANDELA DIAGRAM

Test:U:222.8V I:0.7450A P:160.5W PF:0.9680 Lamp Flux:11200x1 lm		
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DIMENSION:	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:



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DIMENSION:	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:

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	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445
5	3411	3399	3387	3376	3364	3353	3342	3331	3321	3312	3303	3295	3288	3282	3276	3271	3268	3269	3271
10	3405	3388	3372	3355	3337	3318	3298	3277	3257	3235	3215	3195	3176	3156	3140	3125	3112	3101	3097
15	3404	3395	3385	3373	3358	3340	3319	3291	3258	3244	3234	3220	3207	3193	3176	3159	3148	3139	3137
20	3397	3405	3412	3416	3415	3407	3401	3417	3423	3412	3392	3359	3321	3286	3254	3220	3191	3176	3178
25	3307	3359	3410	3457	3493	3533	3579	3611	3629	3628	3604	3499	3389	3305	3263	3260	3275	3295	3308
30	3117	3214	3319	3425	3523	3624	3716	3794	3819	3704	3564	3418	3289	3204	3180	3223	3320	3404	3438
35	2825	2961	3113	3273	3412	3561	3713	3790	3772	3683	3526	3338	3179	3087	3076	3141	3267	3400	3461
40	2378	2565	2784	2975	3162	3366	3562	3705	3757	3692	3509	3308	3122	2994	2971	3045	3202	3387	3485
45	1822	2030	2293	2481	2720	3086	3428	3675	3636	3553	3428	3247	3063	2937	2907	2987	3145	3298	3318
50	1292	1473	1672	1855	2231	2783	3198	3274	3328	3326	3261	3152	3022	2913	2886	2948	3098	3224	3151
55	857	991	1114	1273	1824	2342	2523	2718	2901	2996	3010	2973	2901	2832	2809	2851	2977	3053	2928
60	557	651	700	964	1429	1584	1830	2185	2457	2584	2608	2624	2650	2675	2693	2746	2859	2885	2704
65	358	418	433	731	847	1047	1417	1734	1875	1978	2069	2182	2278	2326	2337	2348	2373	2304	2097
70	229	257	326	419	528	797	977	1129	1267	1427	1563	1682	1774	1833	1868	1897	1868	1718	1490
75	139	148	212	242	366	452	576	737	878	1001	1105	1201	1265	1315	1340	1349	1314	1206	1047
80	72.2	97.3	103	138	182	274	375	458	531	595	656	714	758	789	800	789	754	693	604
85	24.1	37.5	43.0	66.6	89.6	120	156	203	248	289	332	376	416	447	463	463	447	413	359
90	7.16	14.0	15.7	19.7	26.9	38.4	53.1	67.1	79.6	92.1	106	120	135	147	153	154	147	133	113

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 5.0DEG γ Interval: 0.5DEG
 Test Speed: HIGH Test System:EVERFINE GO-2000B SYSTEM V1.0.250
 Temperature:30DEG Humidity:65%
 Operators:IVY Test Distance:9.900m [K=1.0000]
 Test Date:2011-12-29 Remarks: SL880-160W, 90LM/W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:222.8V I:0.7450A P:160.5W PF:0.9680 Lamp Flux:11200x1 lm		
NAME: LED STREET LIGHT	TYPE:SL880	WEIGHT:18.1KG
DIMENSION:	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445
5	3272	3274	3278	3284	3291	3299	3309	3320	3331	3344	3357	3371	3386	3402	3418	3435	3452	3469	3466
10	3094	3094	3099	3109	3120	3133	3144	3156	3169	3184	3202	3224	3250	3278	3310	3346	3385	3426	3417
15	3138	3132	3127	3118	3100	3067	3027	2980	2930	2892	2901	2919	2946	2983	3028	3082	3145	3216	3198
20	3183	3175	3165	3139	3084	3007	2921	2824	2732	2646	2571	2505	2511	2542	2587	2644	2714	2797	2772
25	3285	3228	3147	3036	2918	2810	2704	2595	2477	2369	2274	2184	2104	2074	2104	2141	2193	2263	2227
30	3373	3235	3029	2806	2619	2471	2344	2245	2168	2107	2013	1907	1801	1701	1648	1644	1656	1691	1642
35	3399	3215	2934	2633	2384	2176	2014	1924	1860	1800	1750	1692	1538	1388	1243	1189	1158	1151	1093
40	3423	3195	2849	2504	2222	1994	1824	1703	1591	1496	1423	1368	1301	1108	929	809	760	735	678
45	3153	2868	2527	2217	1972	1788	1655	1508	1365	1218	1073	996	940	858	673	526	480	453	411
50	2869	2513	2172	1866	1625	1453	1322	1227	1141	977	820	677	614	576	479	359	307	290	261
55	2632	2274	1917	1596	1342	1136	965	863	783	713	642	507	395	351	336	253	208	200	182
60	2403	2056	1695	1375	1112	902	736	603	500	453	417	381	295	222	209	185	151	152	141
65	1820	1531	1259	1028	833	673	546	436	361	302	257	232	213	171	132	138	116	121	114
70	1236	997	803	656	535	436	351	288	243	208	178	150	129	121	103	94.2	89.2	95.0	90.7
75	869	694	551	437	346	273	213	167	136	122	111	102	88.4	72.6	69.7	62.6	66.2	69.3	70.0
80	511	414	335	268	215	172	135	107	85.3	70.8	60.1	51.1	47.7	45.9	40.1	39.0	38.2	45.6	43.9
85	301	242	194	153	122	96.8	75.7	59.6	47.7	39.4	33.2	28.1	24.1	20.4	17.3	18.7	19.1	25.2	25.0
90	93.4	75.4	60.8	48.1	38.6	31.5	25.5	20.8	17.4	14.9	12.9	11.4	10.3	9.48	8.86	8.40	8.18	12.2	9.39

C Range: 0 - 360DEG
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γ Range: 0 - 90DEG
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 Test System:EVERFINE GO-2000B SYSTEM V1.0.250
 Humidity:65%
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DIMENSION:	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:

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	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445
5	3462	3459	3455	3452	3449	3446	3443	3440	3437	3435	3432	3430	3427	3424	3422	3418	3415	3410	3406
10	3410	3404	3402	3401	3401	3401	3402	3404	3406	3407	3404	3401	3398	3396	3394	3392	3385	3380	3374
15	3189	3187	3194	3205	3223	3242	3264	3264	3258	3251	3243	3240	3232	3225	3224	3224	3226	3228	3236
20	2762	2767	2789	2827	2869	2896	2921	2943	2960	2975	2985	2997	3013	3026	3038	3050	3067	3082	3109
25	2216	2230	2264	2328	2404	2477	2538	2591	2632	2681	2737	2796	2865	2941	3011	3072	3117	3142	3163
30	1623	1635	1712	1850	1984	2110	2202	2271	2333	2402	2486	2587	2703	2834	2967	3085	3167	3205	3219
35	1064	1079	1255	1442	1636	1761	1863	1956	2039	2120	2244	2397	2578	2776	2967	3126	3217	3240	3229
40	643	723	904	1114	1266	1406	1544	1676	1814	1948	2092	2256	2467	2713	2963	3166	3268	3267	3217
45	383	493	648	784	926	1090	1290	1479	1642	1790	1917	2051	2235	2475	2753	3023	3220	3294	3251
50	264	345	435	531	667	873	1092	1304	1406	1504	1622	1762	1953	2203	2518	2867	3171	3330	3288
55	198	248	293	373	526	722	854	963	1074	1197	1349	1523	1743	2029	2374	2745	3052	3192	3147
60	158	178	210	295	410	494	586	684	810	958	1125	1319	1567	1880	2246	2627	2933	3045	2995
65	129	134	171	221	267	328	415	508	612	744	886	1066	1292	1575	1909	2276	2608	2802	2849
70	96.9	109	129	147	189	245	306	361	425	514	629	787	987	1252	1566	1923	2283	2566	2716
75	70.3	80.9	88.8	114	141	167	195	225	268	342	444	577	747	959	1211	1497	1792	2039	2188
80	49.3	54.2	64.4	72.6	84.5	105	128	156	193	247	321	416	535	684	864	1076	1302	1506	1635
85	28.3	29.8	36.4	45.4	56.7	67.9	83.0	101	127	164	213	276	353	453	575	722	878	1018	1109
90	11.1	13.2	16.2	20.5	25.9	32.7	41.2	52.0	66.5	86.2	112	144	182	229	292	370	453	529	582

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Temperature: 30DEG	Humidity: 65%
Operators: IVY	Test Distance: 9.900m [K=1.0000]
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Table--4

UNIT: cd

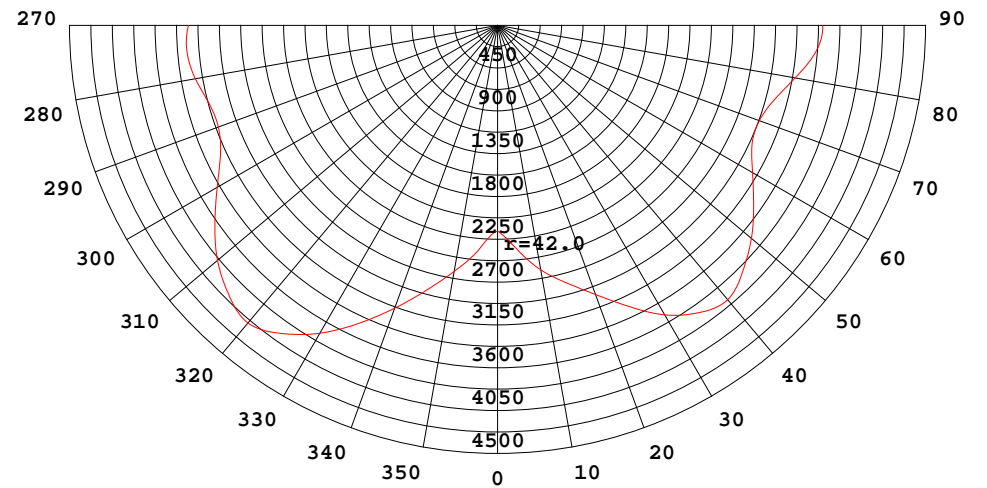
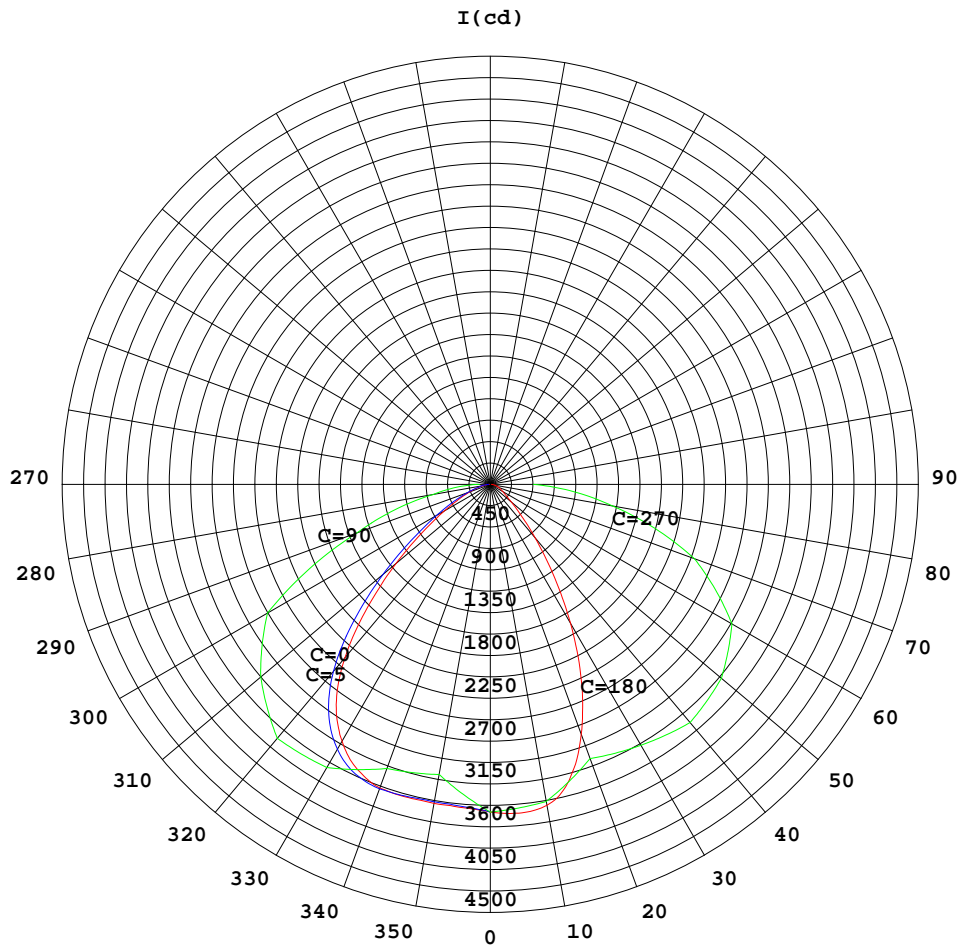
C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445	3445				
5	3403	3401	3400	3399	3398	3398	3398	3398	3399	3400	3402	3403	3405	3407	3409				
10	3372	3371	3370	3370	3370	3371	3372	3374	3377	3381	3385	3389	3393	3397	3401				
15	3250	3268	3287	3305	3325	3343	3358	3368	3377	3386	3392	3396	3400	3402	3403				
20	3146	3189	3238	3288	3331	3369	3397	3416	3423	3418	3418	3417	3414	3409	3403				
25	3191	3230	3282	3343	3408	3473	3521	3543	3542	3518	3477	3436	3407	3373	3339				
30	3245	3280	3342	3423	3515	3605	3678	3719	3698	3637	3551	3445	3350	3269	3189				
35	3224	3252	3338	3478	3643	3763	3843	3865	3821	3720	3565	3387	3204	3066	2938				
40	3159	3164	3253	3424	3635	3844	4007	4024	3917	3737	3502	3250	2996	2765	2560				
45	3145	3099	3168	3367	3625	3842	3987	4039	4004	3721	3365	2975	2657	2372	2076				
50	3122	3017	3047	3244	3524	3772	3938	3909	3779	3593	3143	2596	2161	1872	1573				
55	3015	2939	2982	3141	3381	3607	3702	3636	3395	3067	2755	2194	1614	1349	1117				
60	2915	2922	3036	3162	3260	3343	3389	3253	2900	2448	2044	1752	1229	894	757				
65	2827	2854	2953	3020	2990	2875	2749	2598	2399	1963	1458	1130	928	571	499				
70	2743	2727	2717	2651	2513	2326	2095	1832	1620	1390	1129	752	557	411	307				
75	2236	2231	2196	2104	1956	1769	1547	1328	1098	846	658	533	339	258	173				
80	1666	1628	1534	1423	1287	1133	981	850	713	579	418	269	189	128	102				
85	1132	1104	1025	923	802	669	548	448	355	268	199	139	92.5	44.2	31.9				
90	602	595	558	496	421	345	272	214	165	121	78.3	43.4	20.5	9.87	8.95				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:IVY
 Test Date:2011-12-29

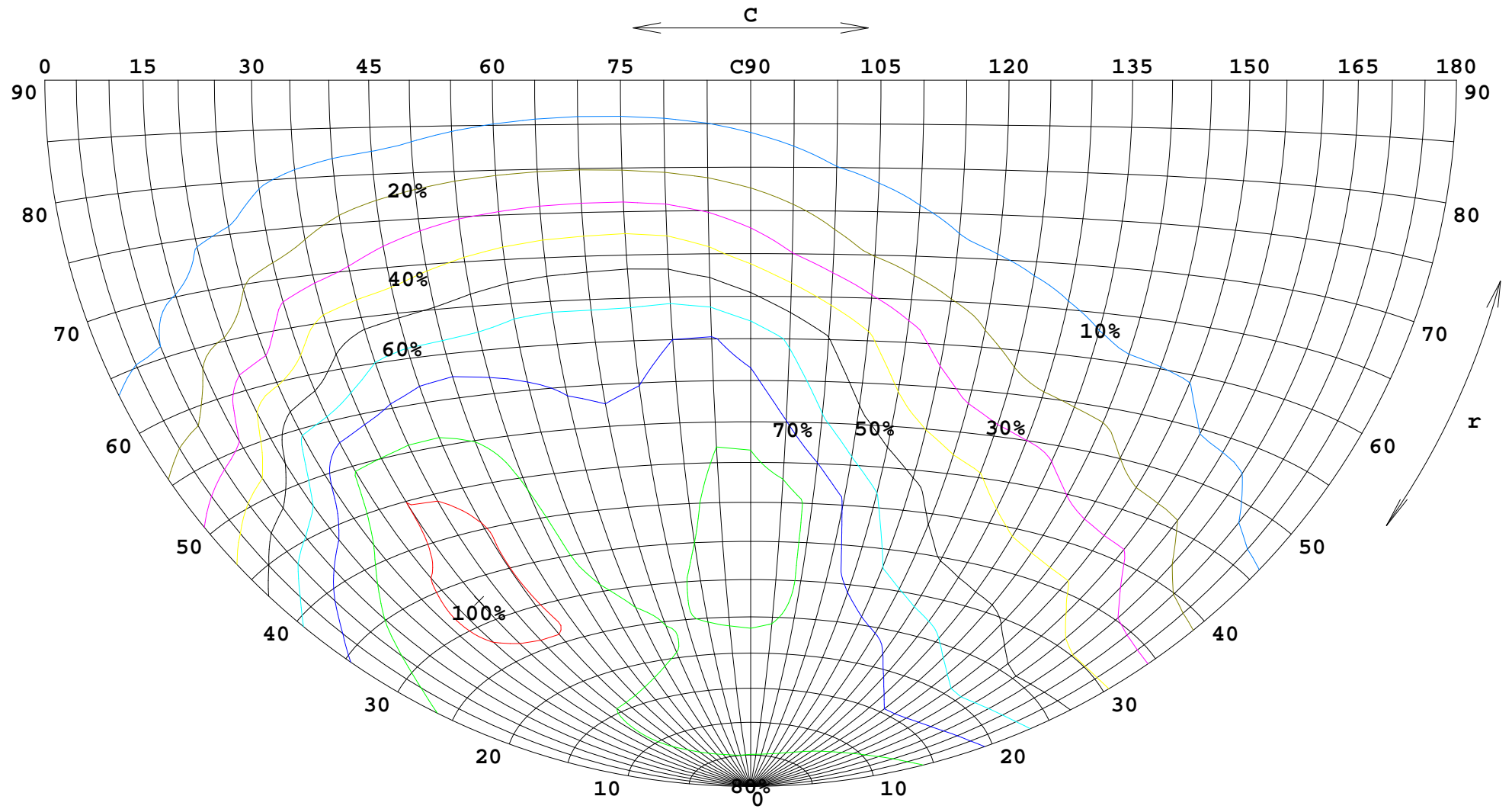
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B SYSTEM V1.0.250
 Humidity:65%
 Test Distance:9.900m [K=1.0000]
 Remarks: SL880-160W, 90LM/W

FLUX DATA:

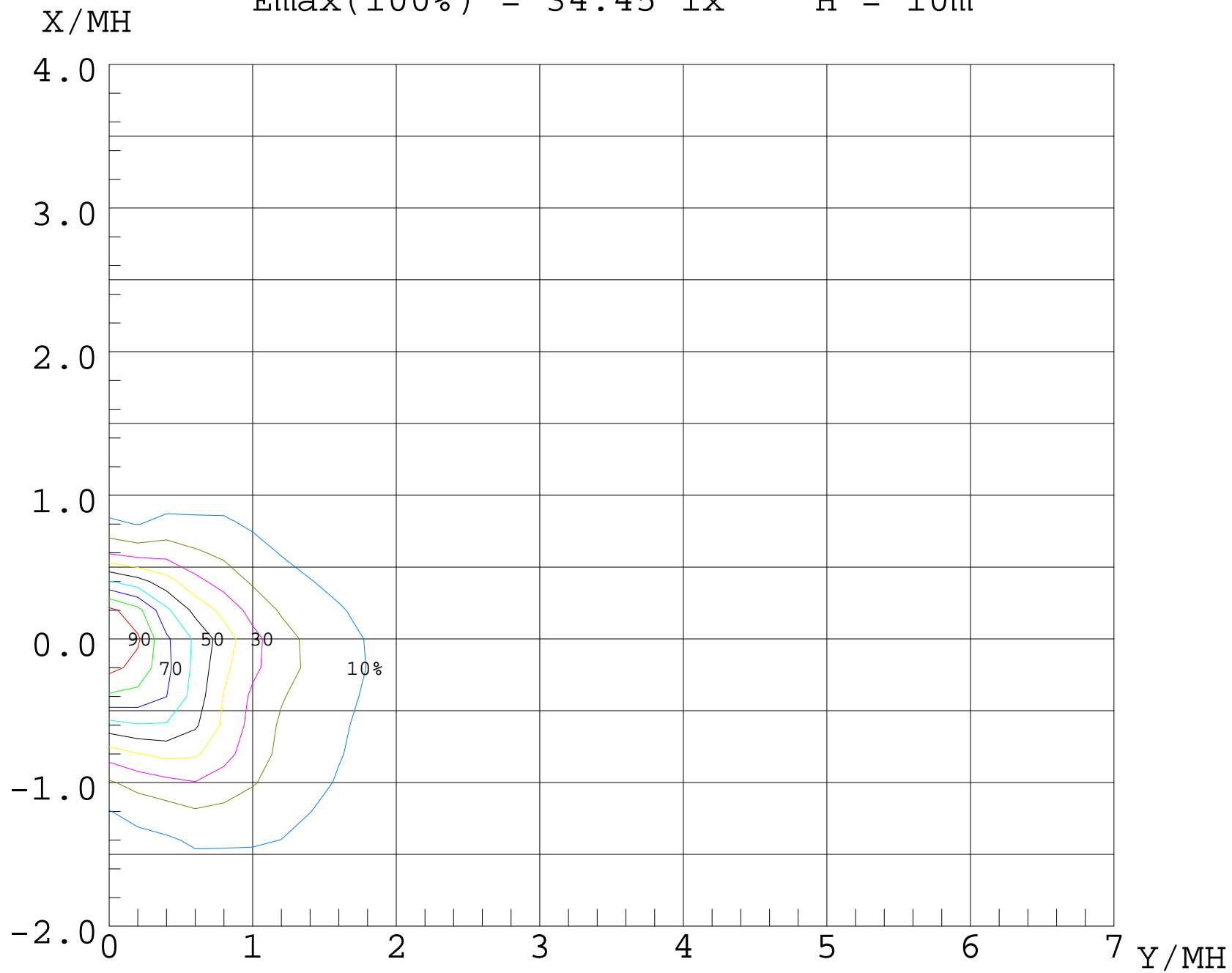
EFFICIENCY: 90.5 %
STREET DOWN: 6822 lm
STREET UP: 0 lm
HOUSE DOWN: 3314 lm
HOUSE UP: 0 lm



$I_{max}(100\%) = 4084 \text{ cd}$



$E_{\max}(100\%) = 34.45 \text{ lx}$ $H = 10\text{m}$



UF (%)

80

70

60

50

40

30

20

10

0

-2

-1

0

1

2

3

4 X/MH

20

10

5

0

0

5

10

15

20