



NATA LIGHTNG CO.,LTD.
www.nata.cn
Email:info@nata.con
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,Ching

Nata

LumCAT: 6-0845-M4
Luminaire: LM07126080EM
Report No: 220629-B002
Test No: 220629-C002
LampCAT: LUMILEDS 5050
Lamp flux(lm): 2227.0
Number of Lamps: 1
Length(mm): 43
Phm Type: C

Voltage(V): 40.3800
Current(A): 0.3510
Power (W): 14.1730
PF: 0.0000
Ballast type: DC
Width(mm): 43
Height(mm): 0

Photometric Results

Lumens(lm): 1188.42
Efficiency(%): 53.36%
Lumens(lm)/Power(W): 83.85
Central intensity(cd): 702.814
Maximum intensity(cd): 721.098
Angle of maximum intensity: C=270.0 $\gamma=5.0$
Beam Angle(50%Imax): [C0/180]Total=82.2
 [C90/270]Total=85.2
Field angle(10%Imax): [C0/180]Total=97.5
 [C90/270]Total=100.4
Maximum s/h(1/2): C0_180=1.19 C90_270=1.18
Maximum s/h(1/4): C0_180=1.15 C90_270=1.19
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 53.36%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.811%

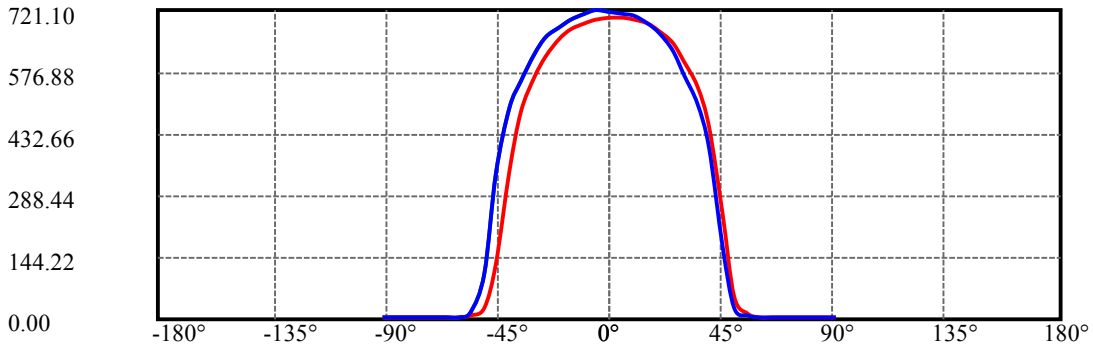
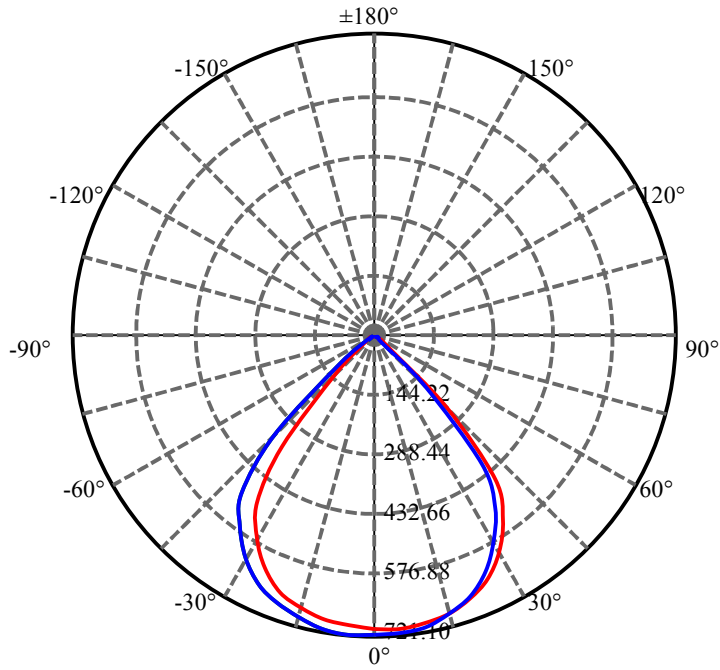
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	713.756	0.000	0	.000%	.000%
5.0	712.535	17.051	17.051	.766%	1.435%
10.0	707.191	50.788	67.839	2.281%	5.708%
15.0	693.683	83.099	150.938	3.731%	12.701%
20.0	673.426	112.669	263.607	5.059%	22.181%
25.0	642.101	137.975	401.581	6.196%	33.791%
30.0	598.115	156.950	558.532	7.048%	46.998%
35.0	536.951	167.146	725.678	7.505%	61.062%
40.0	457.569	165.928	891.606	7.451%	75.025%
45.0	308.799	141.899	1033.506	6.372%	86.965%
50.0	140.020	90.690	1124.196	4.072%	94.596%
55.0	39.205	38.970	1163.166	1.750%	97.875%
60.0	8.933	11.127	1174.293	.500%	98.811%
65.0	4.915	3.366	1177.659	.151%	99.095%
70.0	4.336	2.342	1180.001	.105%	99.292%
75.0	4.048	2.191	1182.193	.098%	99.476%
80.0	3.906	2.128	1184.321	.096%	99.655%
85.0	3.716	2.071	1186.392	.093%	99.829%
90.0	3.686	2.027	1188.419	.091%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	558.53	25.08%	47.00%
0-40	891.61	40.04%	75.02%
0-60	1174.29	52.73%	98.81%
0-90	1186.39	53.27%	99.83%
0-120	1186.39	53.27%	99.83%
0-180	1188.42	53.36%	100.00%
60-90	23.23	1.04%	1.95%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-42.08	950.74	42.69%	80.00%

ZONAL LUMEN SUMMARY

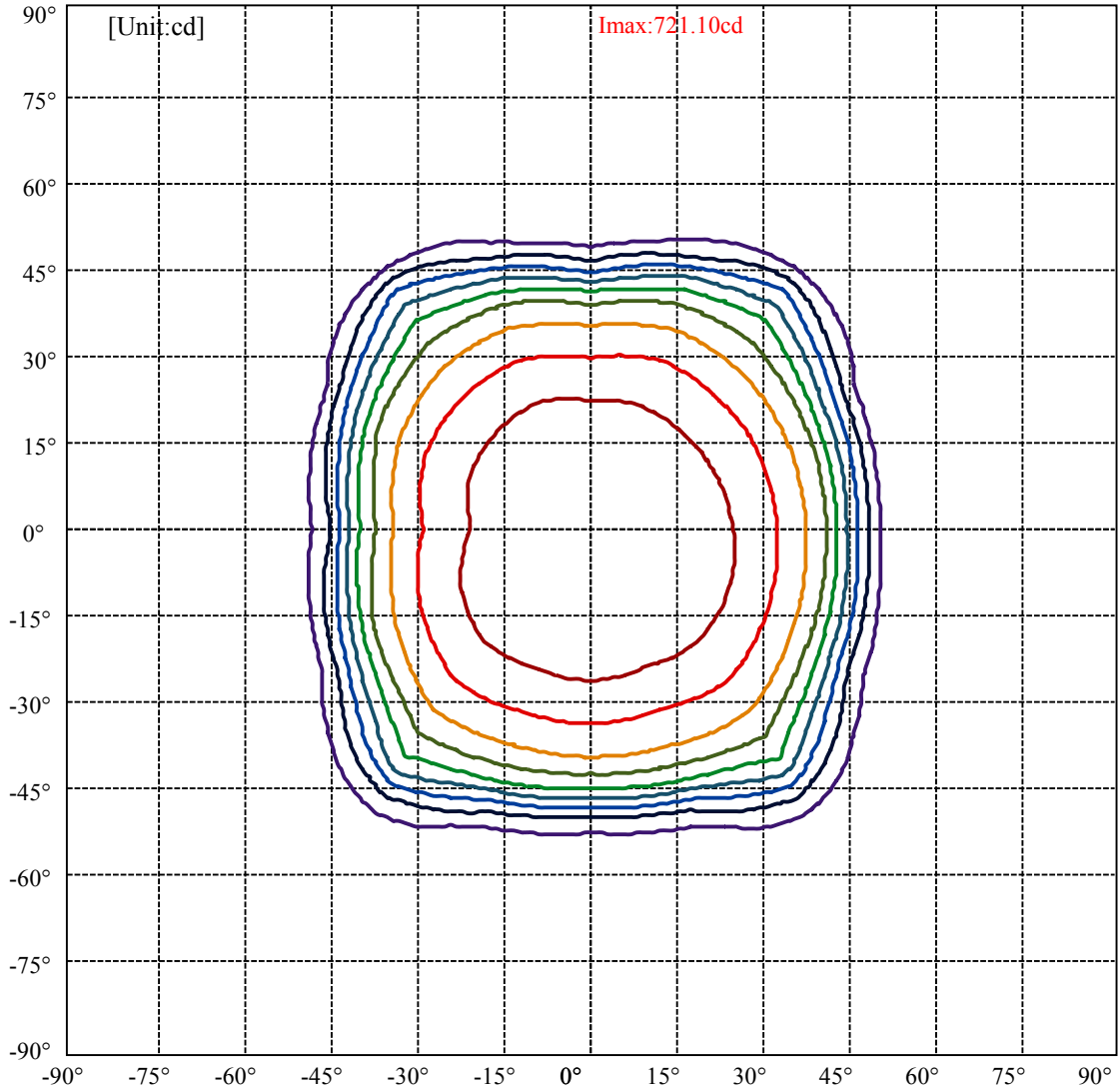
0-10	67.84
10-20	195.77
20-30	294.92
30-40	333.07
40-50	232.59
50-60	50.10
60-70	5.71
70-80	4.32
80-90	2.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00












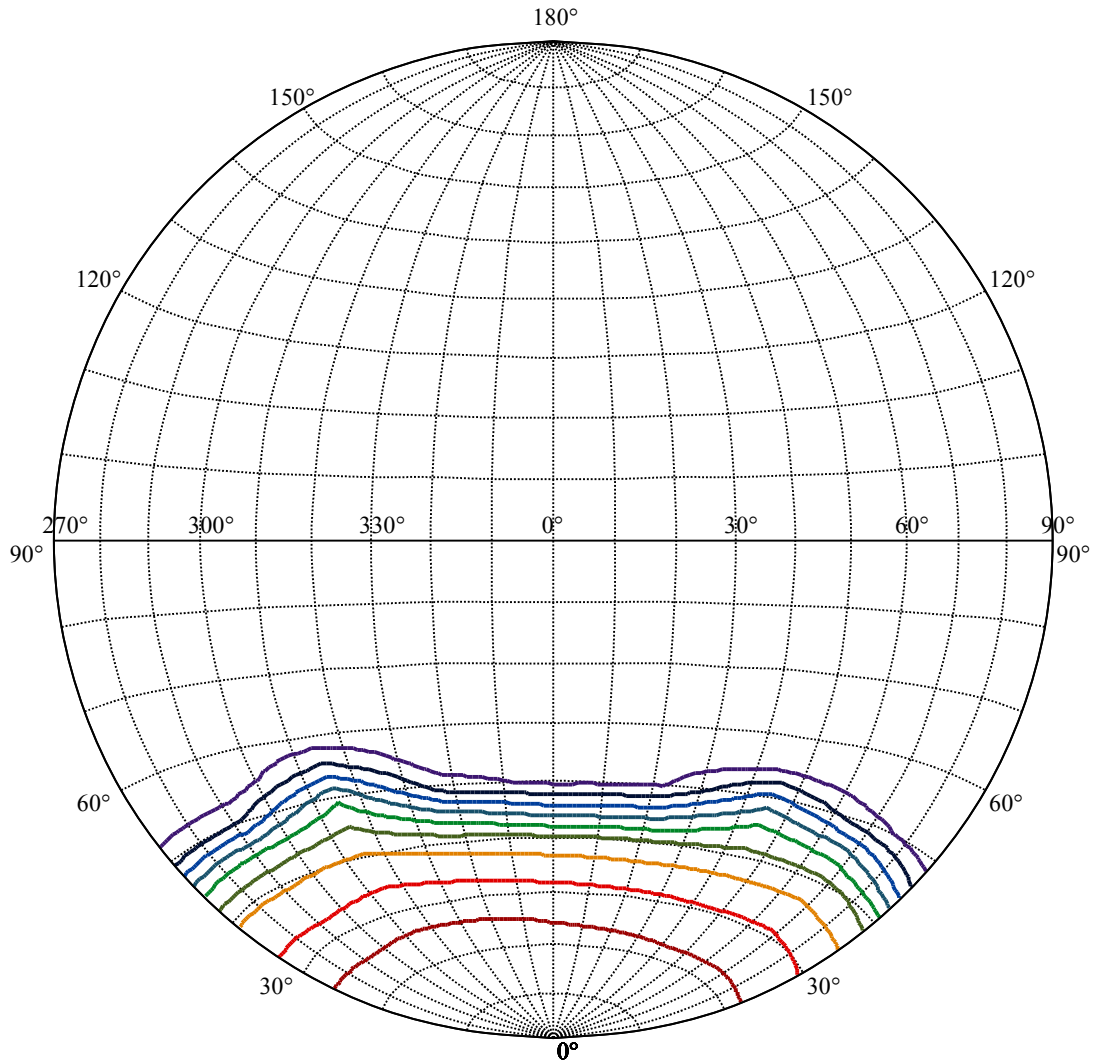
C270(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:52.9 Right:44.6
 :C90/270Left:47.0 Right:53.4

Beam Angle(50%Imax):C0/180Left:44.8 Right:37.4
 :C90/270Left:39.3 Right:45.8



(10%Imax) 72.1098	
(20%Imax) 144.22	
(30%Imax) 216.329	
(40%Imax) 288.439	
(50%Imax) 360.549	
(60%Imax) 432.659	
(70%Imax) 504.769	
(80%Imax) 576.878	
(90%Imax) 648.988	



House

[Unit:cd]

Road

I_{max}:721.10

(10%I_{max}) 72.1098

(20%I_{max}) 144.22

(30%I_{max}) 216.329

(40%I_{max}) 288.439

(50%I_{max}) 360.549

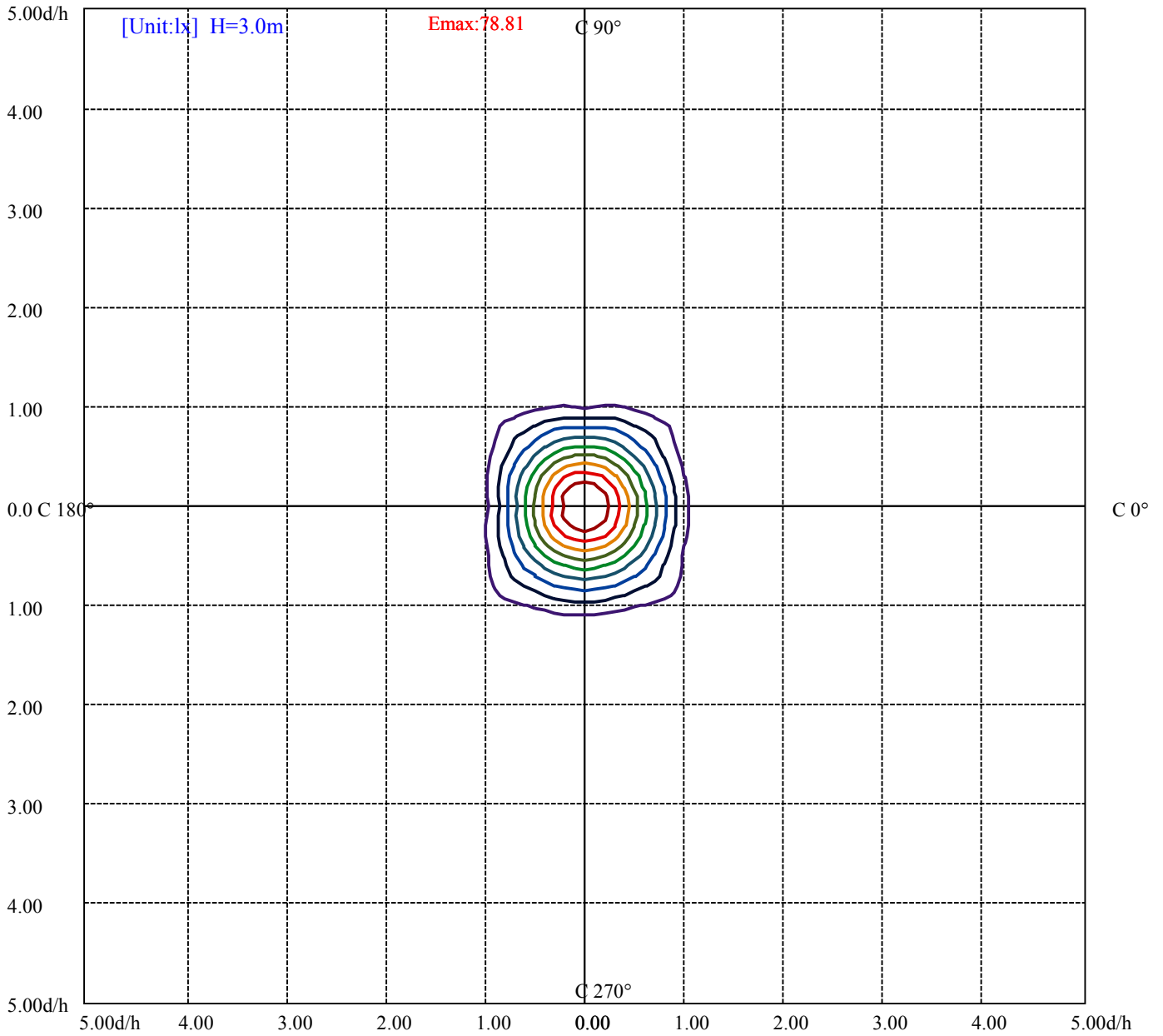
(60%I_{max}) 432.659

(70%I_{max}) 504.769

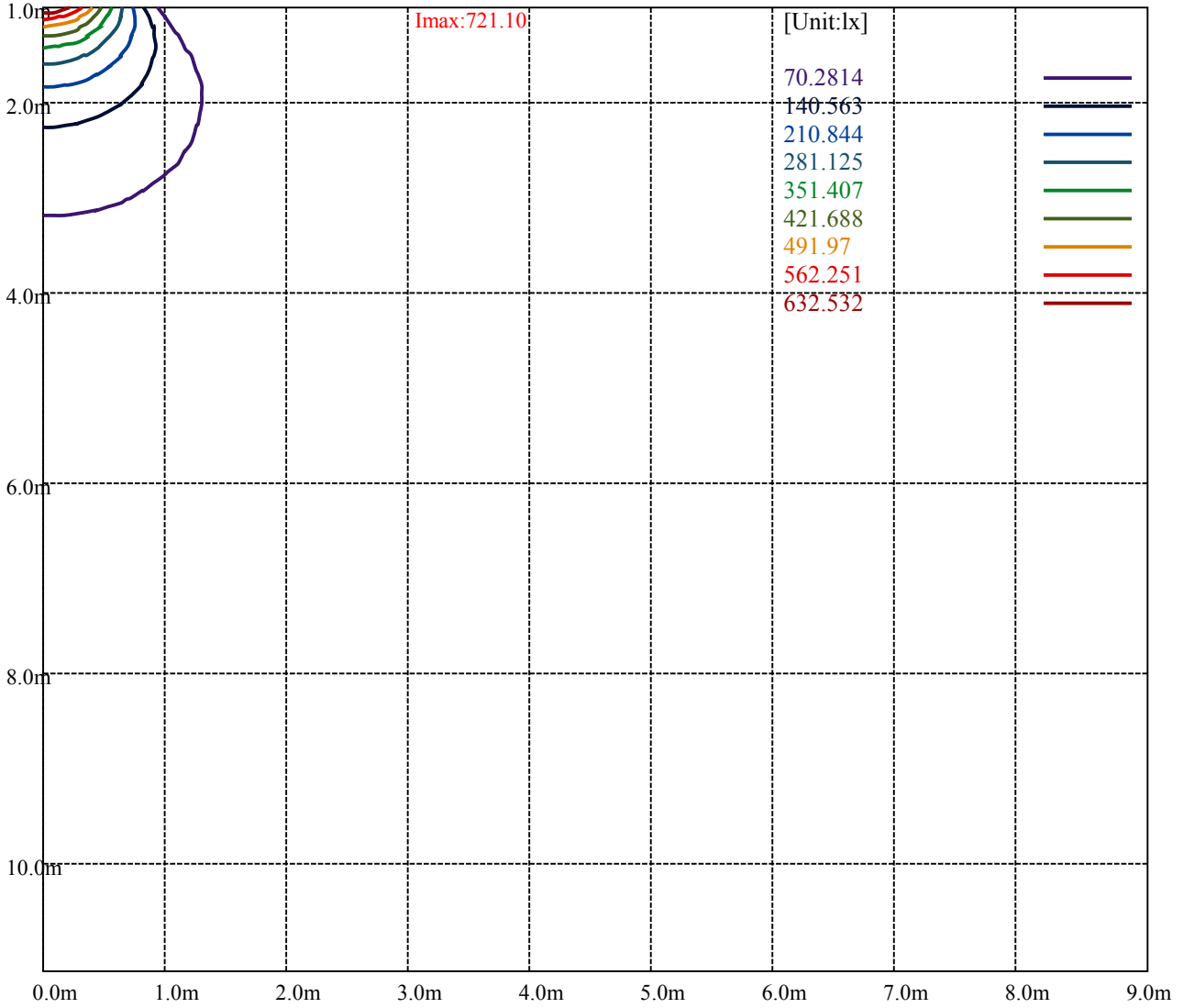
(80%I_{max}) 576.878

(90%I_{max}) 648.988





(10%Emax) 7.881211	—
(20%Emax) 15.76244	—
(30%Emax) 23.64367	—
(40%Emax) 31.52489	—
(50%Emax) 39.406	—
(60%Emax) 47.28722	—
(70%Emax) 55.16844	—
(80%Emax) 63.04967	—
(90%Emax) 70.93089	—



Luminance Table

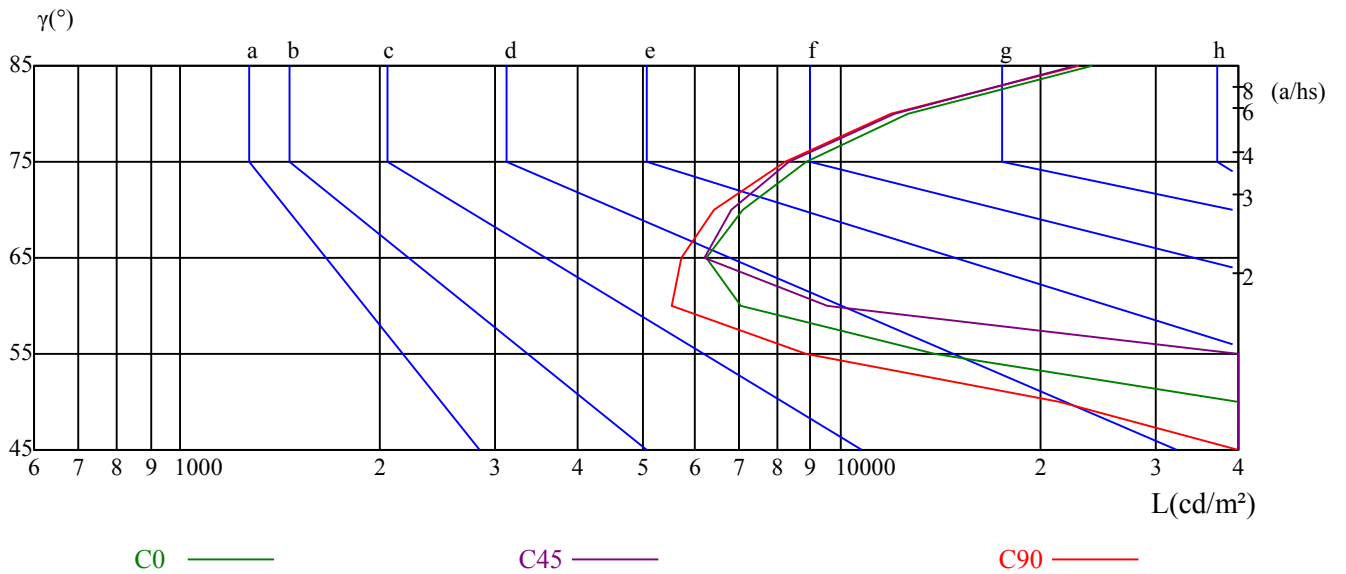
γ	45	50	55	60	65	70	75	80	85
C0	187470	46605	13860	7045	6270	7086	8865	12655	24101
C45	284770	206631	52342	9566	6194	6803	8366	12097	22618
C90	131165	21468	8846	5558	5735	6425	8241	11911	22989

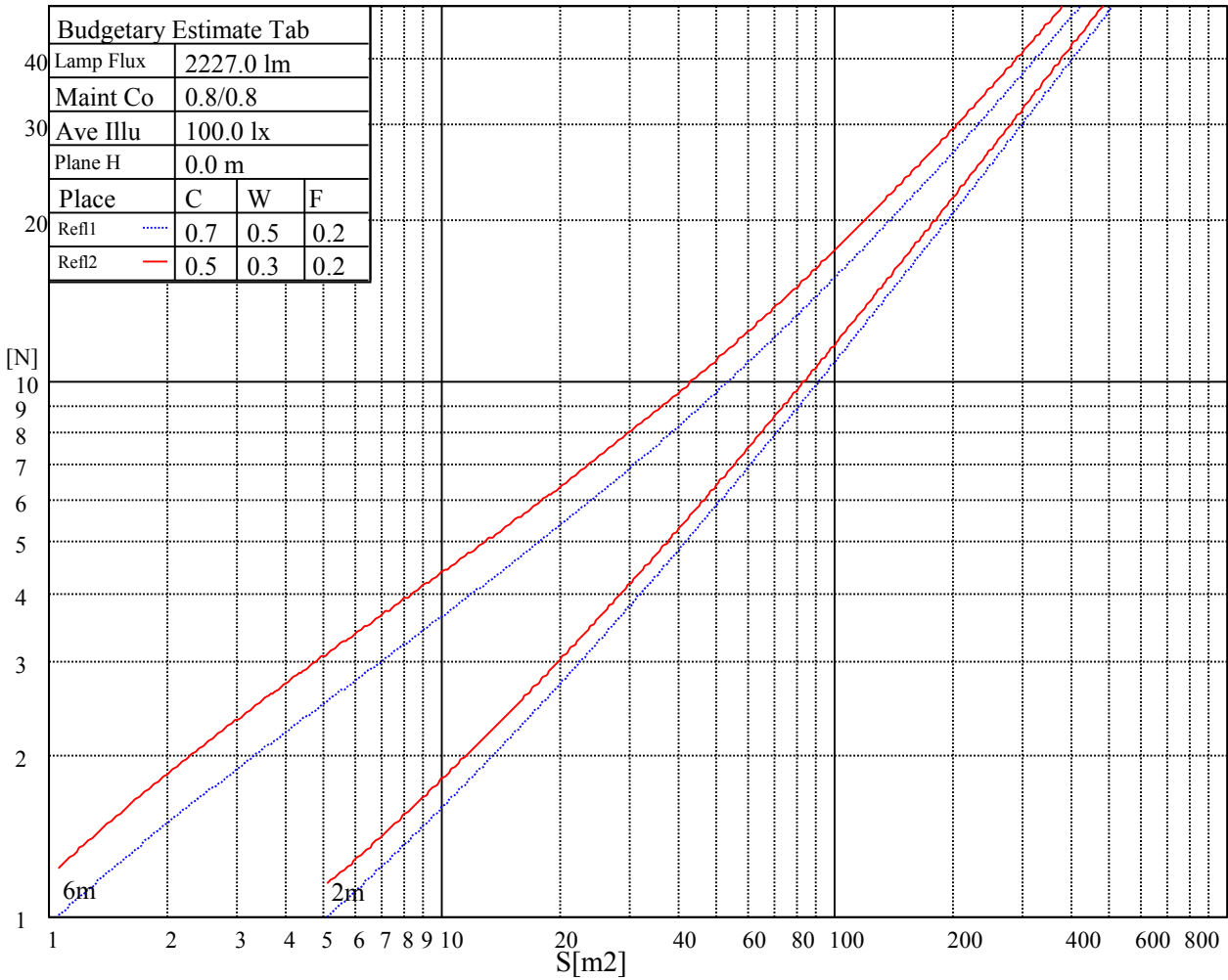
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6117	5850	6710	8803	8303	8397	23730	23174	22803

Glare Table

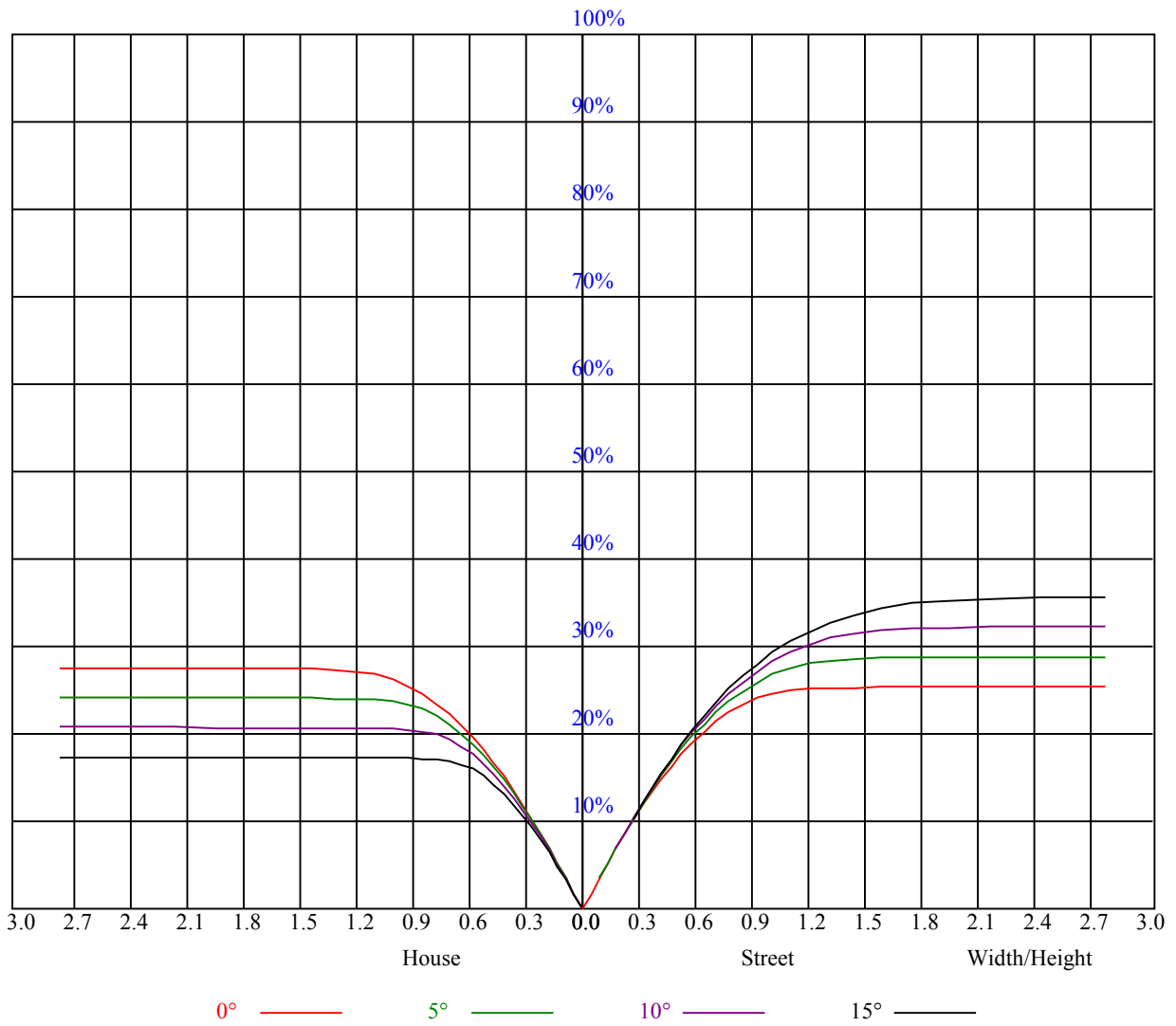
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	0.64	0.64	0.64	0.62	0.62	0.62	0.59	0.59	0.59	0.57	0.57	0.57	0.54	0.54	0.54	0.53
1	0.58	0.57	0.55	0.57	0.56	0.54	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.50	0.49
2	0.53	0.51	0.49	0.52	0.50	0.48	0.50	0.49	0.47	0.49	0.47	0.46	0.47	0.46	0.45	0.44
3	0.49	0.45	0.43	0.48	0.45	0.43	0.46	0.44	0.42	0.45	0.43	0.41	0.44	0.42	0.41	0.40
4	0.45	0.41	0.38	0.44	0.41	0.38	0.43	0.40	0.38	0.42	0.39	0.37	0.41	0.38	0.37	0.36
5	0.41	0.37	0.34	0.40	0.37	0.34	0.39	0.36	0.34	0.38	0.36	0.34	0.37	0.35	0.33	0.32
6	0.38	0.34	0.31	0.37	0.34	0.31	0.36	0.33	0.31	0.35	0.33	0.30	0.35	0.32	0.30	0.29
7	0.35	0.31	0.28	0.34	0.31	0.28	0.34	0.30	0.28	0.33	0.30	0.28	0.32	0.30	0.28	0.27
8	0.32	0.28	0.26	0.32	0.28	0.26	0.31	0.28	0.26	0.30	0.28	0.25	0.30	0.27	0.25	0.24
9	0.30	0.26	0.24	0.29	0.26	0.23	0.29	0.26	0.23	0.28	0.25	0.23	0.28	0.25	0.23	0.22
10	0.28	0.24	0.22	0.27	0.24	0.22	0.27	0.24	0.22	0.26	0.24	0.21	0.26	0.23	0.21	0.21



Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	702.81	703.29	699.47	691.64	670.13	645.75	599.86	539.87	447.37
22.5	713.03	707.35	708.97	694.51	671.14	638.58	594.00	530.19	442.83
45.0	708.25	709.51	699.65	686.26	667.68	630.57	586.18	525.83	456.15
67.5	719.01	715.54	709.03	693.61	668.93	632.78	591.02	529.41	456.87
90.0	718.23	713.99	708.37	691.34	665.83	625.08	570.22	503.00	399.15
112.5	716.56	715.54	710.10	696.54	672.34	639.36	589.94	531.26	458.72
135.0	720.74	719.48	710.88	690.98	670.97	633.32	589.34	531.20	456.81
157.5	711.42	708.79	709.45	692.36	664.27	634.76	588.75	519.25	433.63
180.0	702.81	697.14	691.28	674.25	653.64	614.98	563.35	485.25	346.33
202.5	713.03	709.74	707.06	694.63	679.51	643.66	601.23	532.82	450.06
225.0	708.25	715.72	707.24	693.13	678.37	657.94	621.73	569.39	507.36
247.5	719.01	718.11	711.42	702.93	680.11	653.28	611.63	557.26	491.23
270.0	718.23	721.10	713.21	700.60	680.41	657.10	616.53	557.55	491.77
292.5	716.56	716.02	710.40	697.20	679.57	651.96	613.48	552.48	495.11
315.0	720.74	716.80	708.19	700.96	685.66	658.42	621.37	571.95	513.10
337.5	711.42	712.43	710.34	697.97	686.26	656.09	611.21	554.51	474.62
360.0	702.81	703.29	699.47	691.64	670.13	645.75	599.86	539.87	447.37

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	245.11	55.39	14.70	6.51	4.90	4.48	4.24	4.06	3.88
22.5	259.69	70.27	17.39	6.81	5.38	4.72	4.24	4.00	3.76
45.0	372.32	245.58	55.51	8.84	4.84	4.30	4.00	3.88	3.64
67.5	316.81	101.88	15.30	6.33	4.42	4.12	3.94	3.82	3.70
90.0	171.49	25.51	9.38	5.14	4.48	4.06	3.94	3.82	3.70
112.5	295.30	93.87	14.94	6.04	4.54	4.18	3.94	3.82	3.64
135.0	370.29	251.44	55.75	9.50	4.84	4.36	4.06	3.88	3.64
157.5	257.18	69.97	18.76	7.95	5.38	4.72	4.18	4.00	3.70
180.0	127.75	27.07	10.70	5.50	4.66	4.36	4.18	4.00	3.76
202.5	269.07	85.45	17.27	7.11	5.08	4.48	4.12	4.00	3.70
225.0	426.34	338.14	154.58	21.81	5.68	4.30	4.00	3.88	3.70
247.5	377.40	163.78	20.55	7.71	4.60	4.18	3.94	3.82	3.70
270.0	340.47	108.57	17.03	6.27	4.66	4.36	4.00	3.88	3.76
292.5	370.05	153.15	21.03	7.47	4.60	4.12	3.88	3.76	3.64
315.0	435.90	348.12	165.52	23.18	5.62	4.30	4.00	3.88	3.70
337.5	305.64	102.12	18.88	6.75	4.96	4.30	4.06	3.94	3.76
360.0	245.11	55.39	14.70	6.51	4.90	4.48	4.24	4.06	3.88

C/γ(°)	90.0
0.0	3.76
22.5	3.70
45.0	3.64
67.5	3.70
90.0	3.70
112.5	3.70
135.0	3.64
157.5	3.70
180.0	3.70
202.5	3.70
225.0	3.64
247.5	3.70
270.0	3.70
292.5	3.64
315.0	3.59
337.5	3.70
360.0	3.76