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## Nata

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LumCAT: 1-1252-L	
Luminaire: 92.70.123.00	
Report No: 220929-B013	Voltage(V): 34.5700
Test No: 220929-C013	Current(A): 0.1850
LampCAT: LUMINUS CXM-6	Power (W): 6.3950
Lamp flux(lm): 813.4	PF: 1.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 690.45  
Efficiency(%): 84.88%  
Lumens(lm)/Power(W): 107.97  
Central intensity(cd): 1261.160  
Maximum intensity(cd): 1261.160  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=44.2  
                                  [C90/270]Total=44.2  
Field angle(10%Imax): [C0/180]Total=66.6  
                                  [C90/270]Total=66.6  
Maximum s/h(1/2): C0\_180=0.70 C90\_270=0.70  
Maximum s/h(1/4): C0\_180=0.70 C90\_270=0.70  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 84.88%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.975%

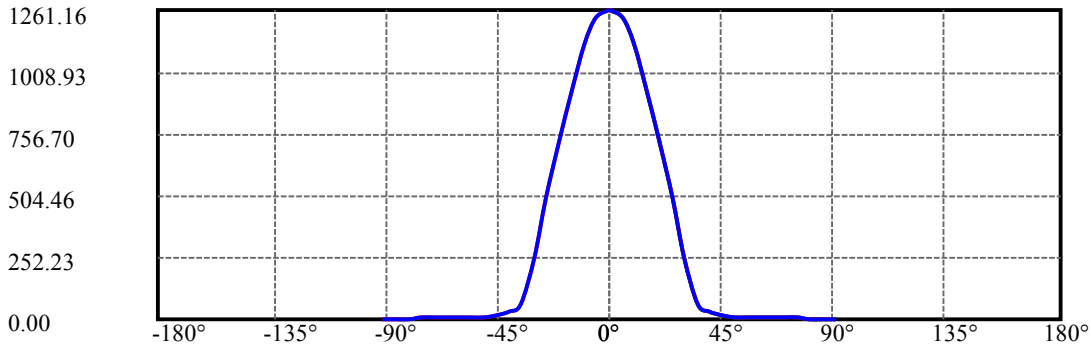
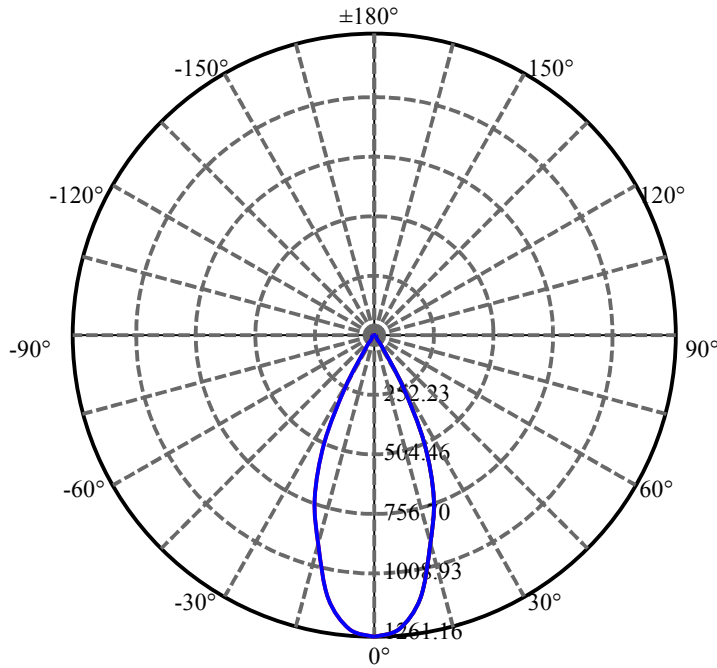
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1261.160	0.000	0	.000%	.000%
5.0	1233.696	29.825	29.825	3.667%	4.320%
10.0	1120.247	84.208	114.033	10.352%	16.516%
15.0	915.564	120.763	234.796	14.846%	34.006%
20.0	727.611	135.421	370.217	16.648%	53.620%
25.0	496.360	128.372	498.589	15.782%	72.213%
30.0	248.654	94.282	592.871	11.591%	85.868%
35.0	62.912	45.880	638.751	5.640%	92.513%
40.0	29.675	15.447	654.199	1.899%	94.750%
45.0	16.133	8.482	662.681	1.043%	95.979%
50.0	11.607	5.605	668.286	.689%	96.790%
55.0	8.911	4.461	672.747	.548%	97.437%
60.0	7.185	3.721	676.468	.457%	97.975%
65.0	5.804	3.158	679.625	.388%	98.433%
70.0	4.877	2.704	682.33	.332%	98.824%
75.0	4.213	2.376	684.706	.292%	99.169%
80.0	3.682	2.112	686.818	.260%	99.475%
85.0	3.286	1.894	688.712	.233%	99.749%
90.0	3.047	1.734	690.446	.213%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	592.87	72.89%	85.87%
0-40	654.20	80.42%	94.75%
0-60	676.47	83.16%	97.98%
0-90	688.71	84.67%	99.75%
0-120	688.71	84.67%	99.75%
0-180	690.45	84.88%	100.00%
60-90	15.96	1.96%	2.31%
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%
0-27.85	552.36	67.90%	80.00%

ZONAL LUMEN SUMMARY

0-10	114.03
10-20	256.18
20-30	222.65
30-40	61.33
40-50	14.09
50-60	8.18
60-70	5.86
70-80	4.49
80-90	1.89
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



C0(Max): —————

C0/C180: —————

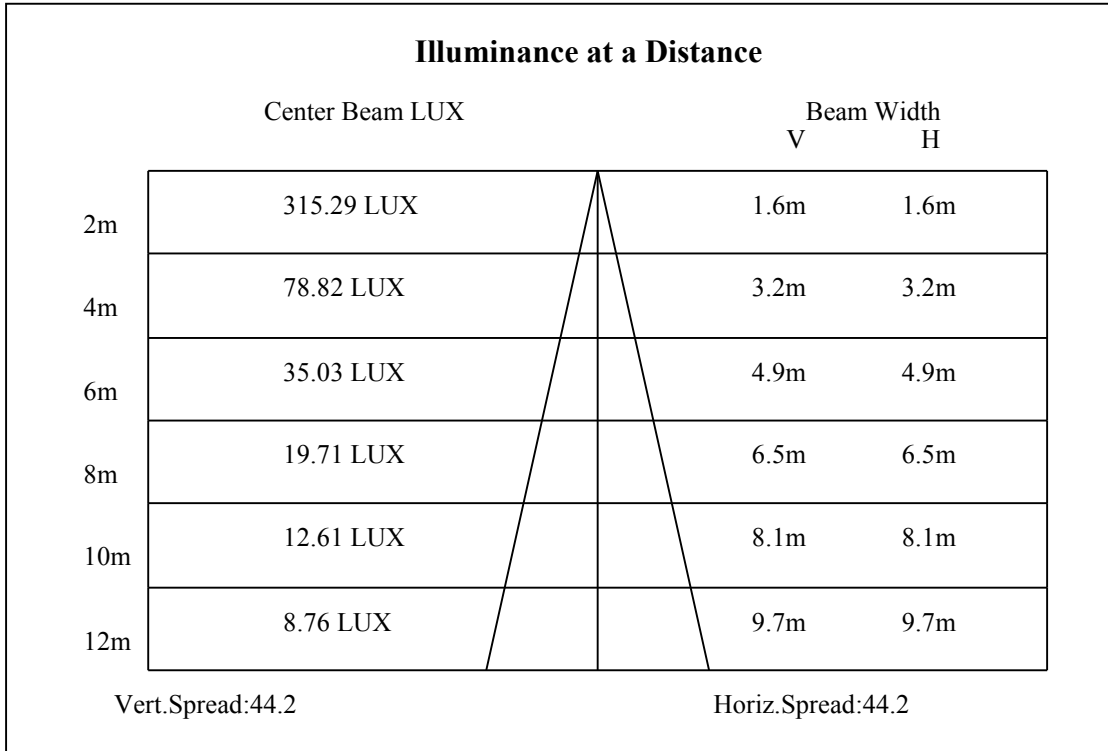
C90/C270: —————

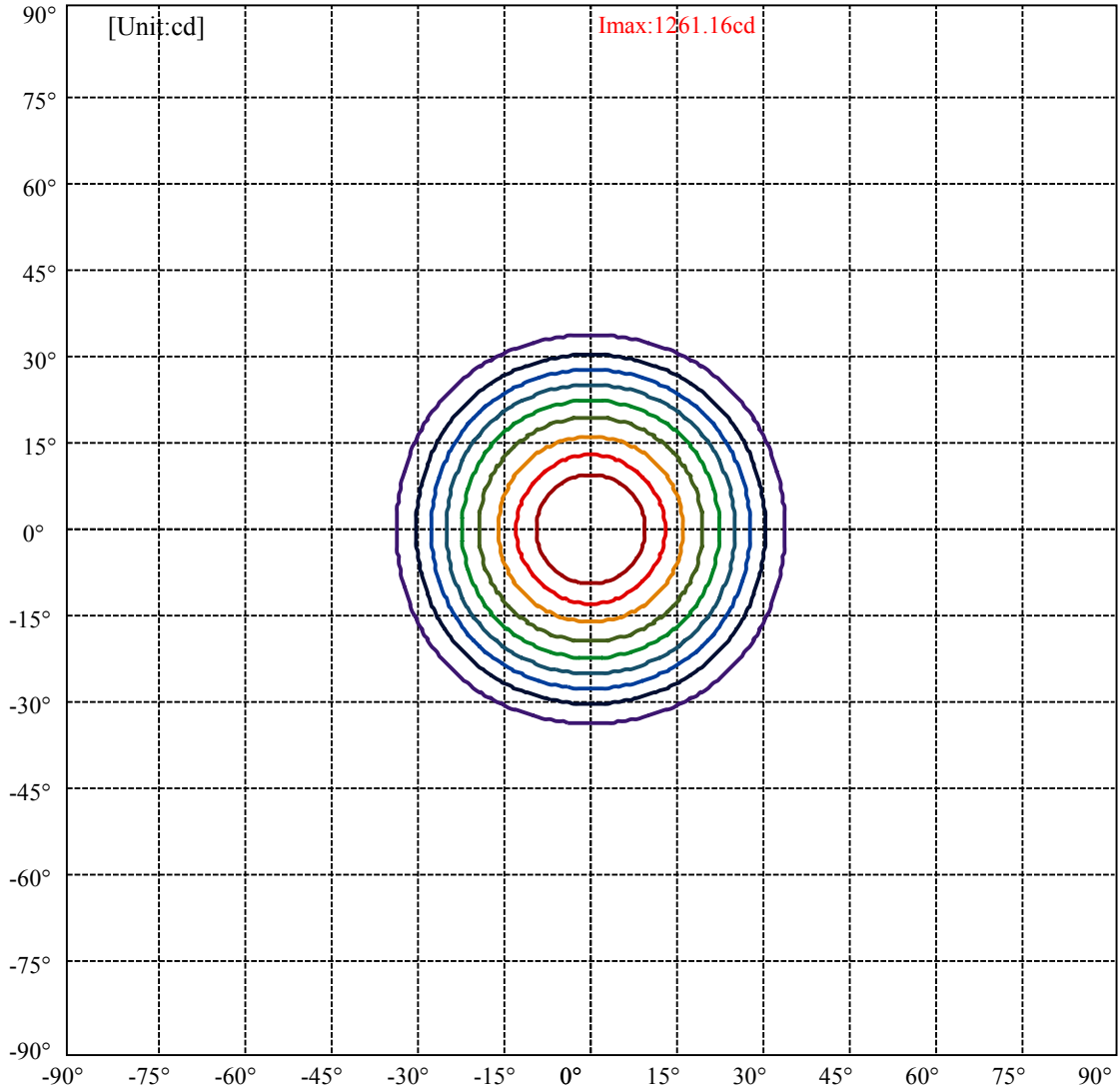
Field angle(10%Imax):C0/180Left:33.3 Right:33.3

:C90/270Left:33.3 Right:33.3

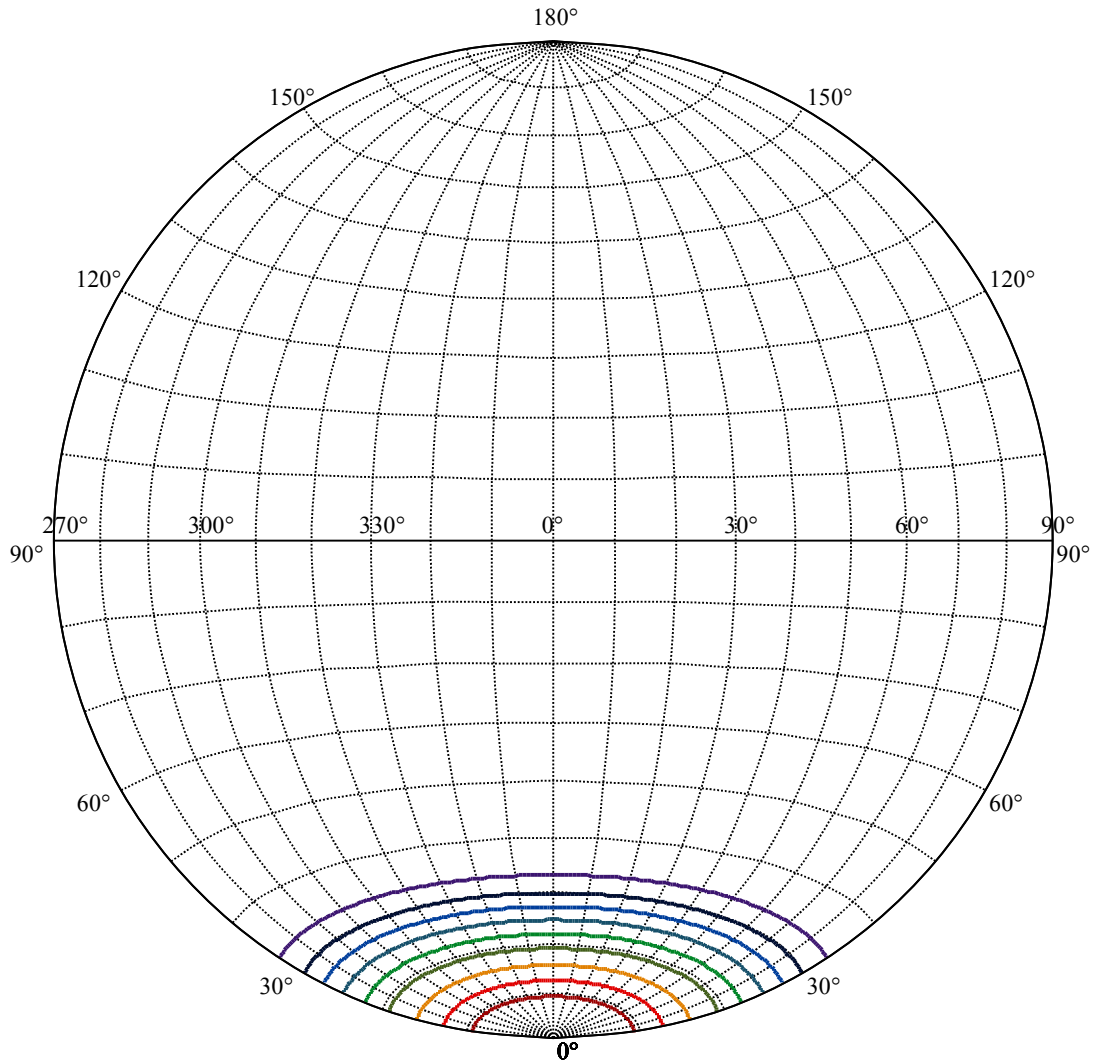
Beam Angle(50%Imax):C0/180Left:22.1 Right:22.1

:C90/270Left:22.1 Right:22.1





(10%Imax) 126.116	—
(20%Imax) 252.232	—
(30%Imax) 378.348	—
(40%Imax) 504.464	—
(50%Imax) 630.58	—
(60%Imax) 756.696	—
(70%Imax) 882.812	—
(80%Imax) 1008.93	—
(90%Imax) 1135.04	—



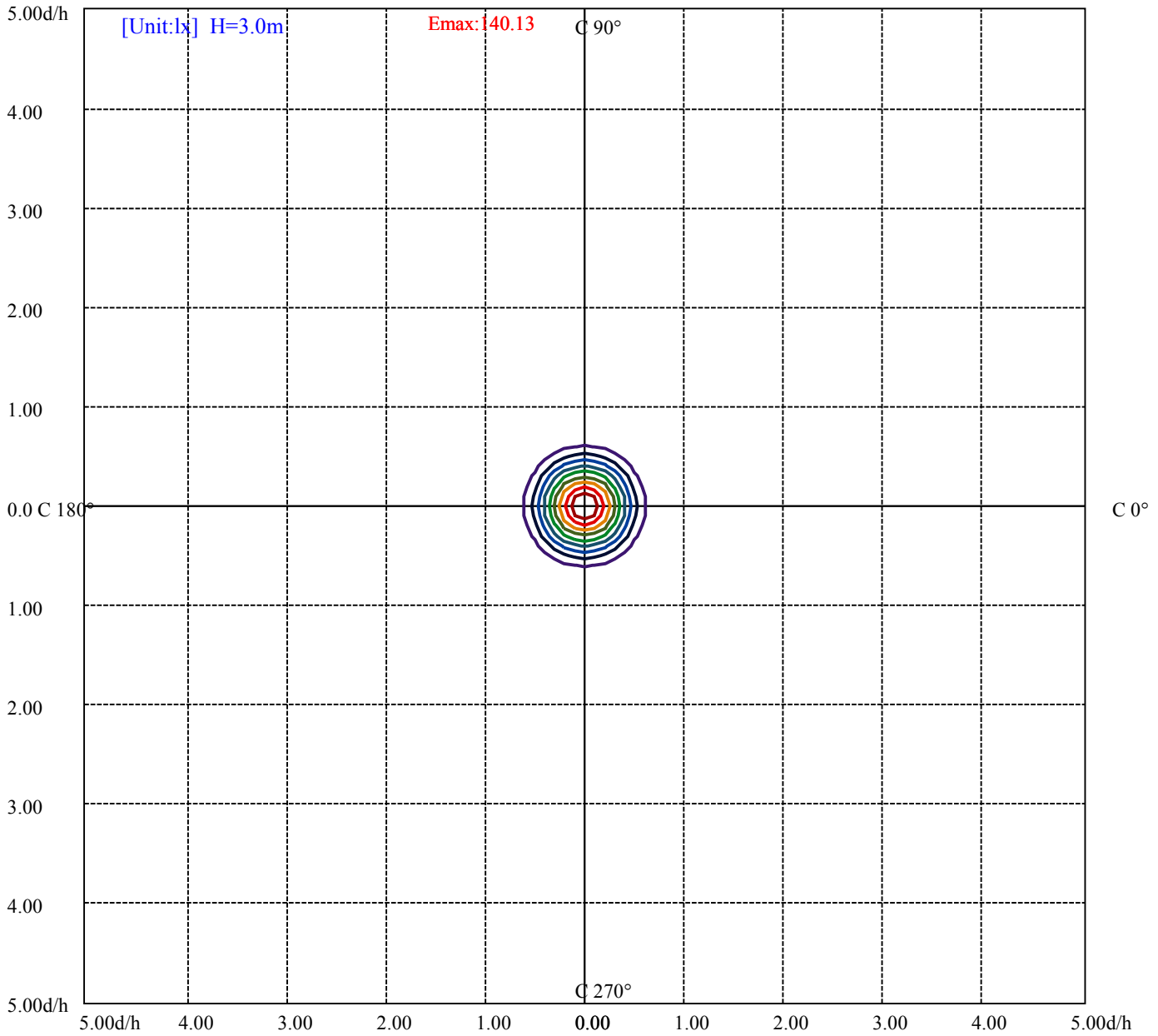
House

[Unit:cd]

Road

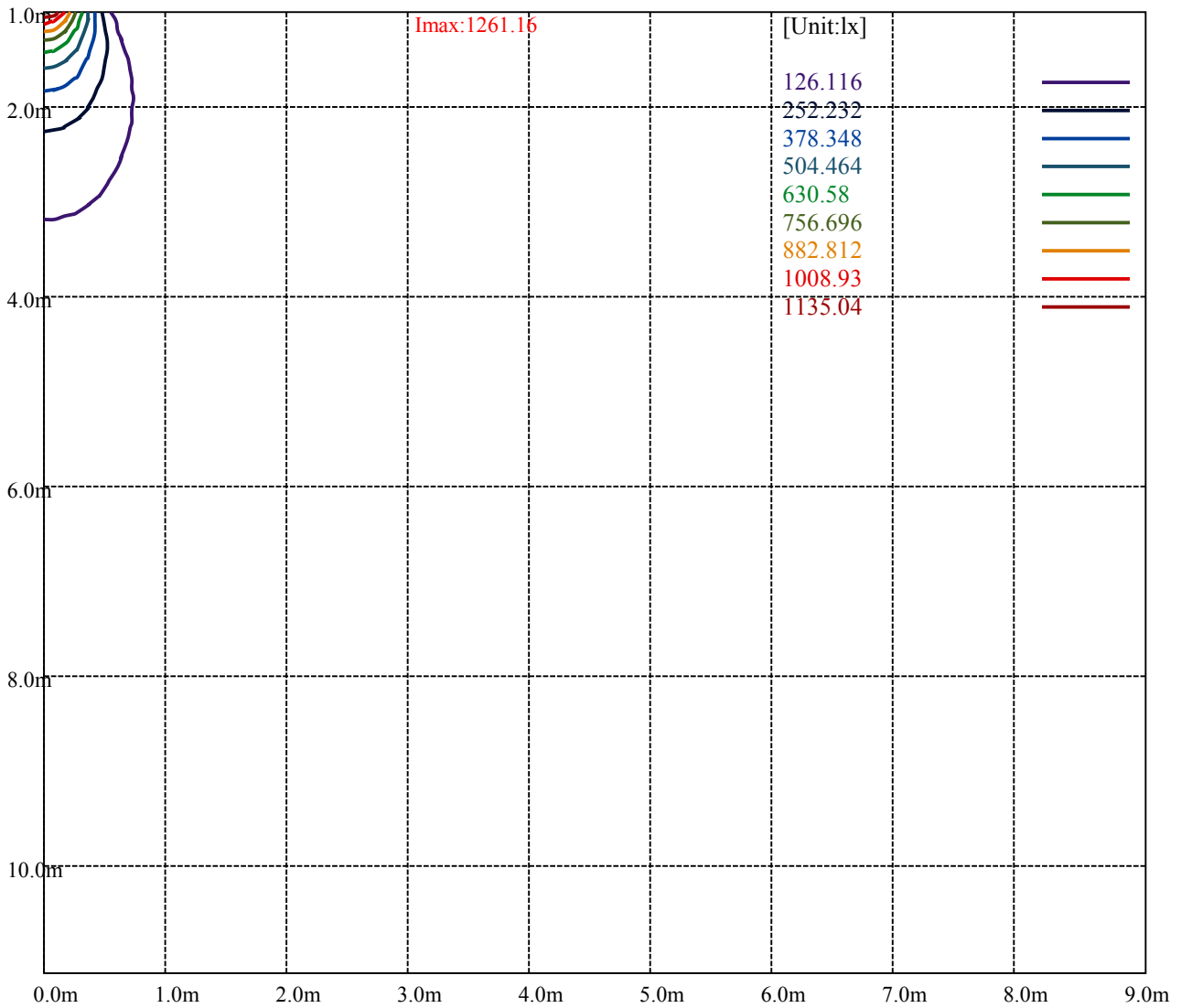
**I<sub>max</sub>:1261.16**

(10%I <sub>max</sub> )	126.116	—
(20%I <sub>max</sub> )	252.232	—
(30%I <sub>max</sub> )	378.348	—
(40%I <sub>max</sub> )	504.464	—
(50%I <sub>max</sub> )	630.58	—
(60%I <sub>max</sub> )	756.696	—
(70%I <sub>max</sub> )	882.812	—
(80%I <sub>max</sub> )	1008.93	—
(90%I <sub>max</sub> )	1135.04	—



- (10%E<sub>max</sub>) 14.01289
- (20%E<sub>max</sub>) 28.02578
- (30%E<sub>max</sub>) 42.03867
- (40%E<sub>max</sub>) 56.05145
- (50%E<sub>max</sub>) 70.06433
- (60%E<sub>max</sub>) 84.07722
- (70%E<sub>max</sub>) 98.09011
- (80%E<sub>max</sub>) 112.1033
- (90%E<sub>max</sub>) 126.1156





Luminance Table

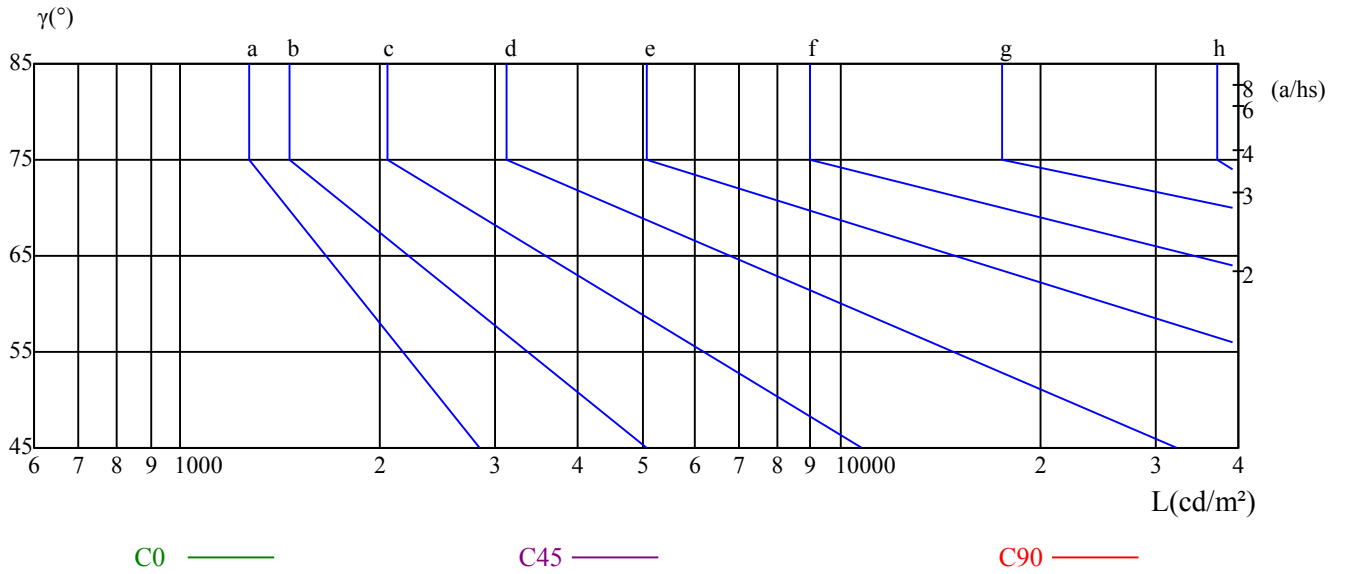
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

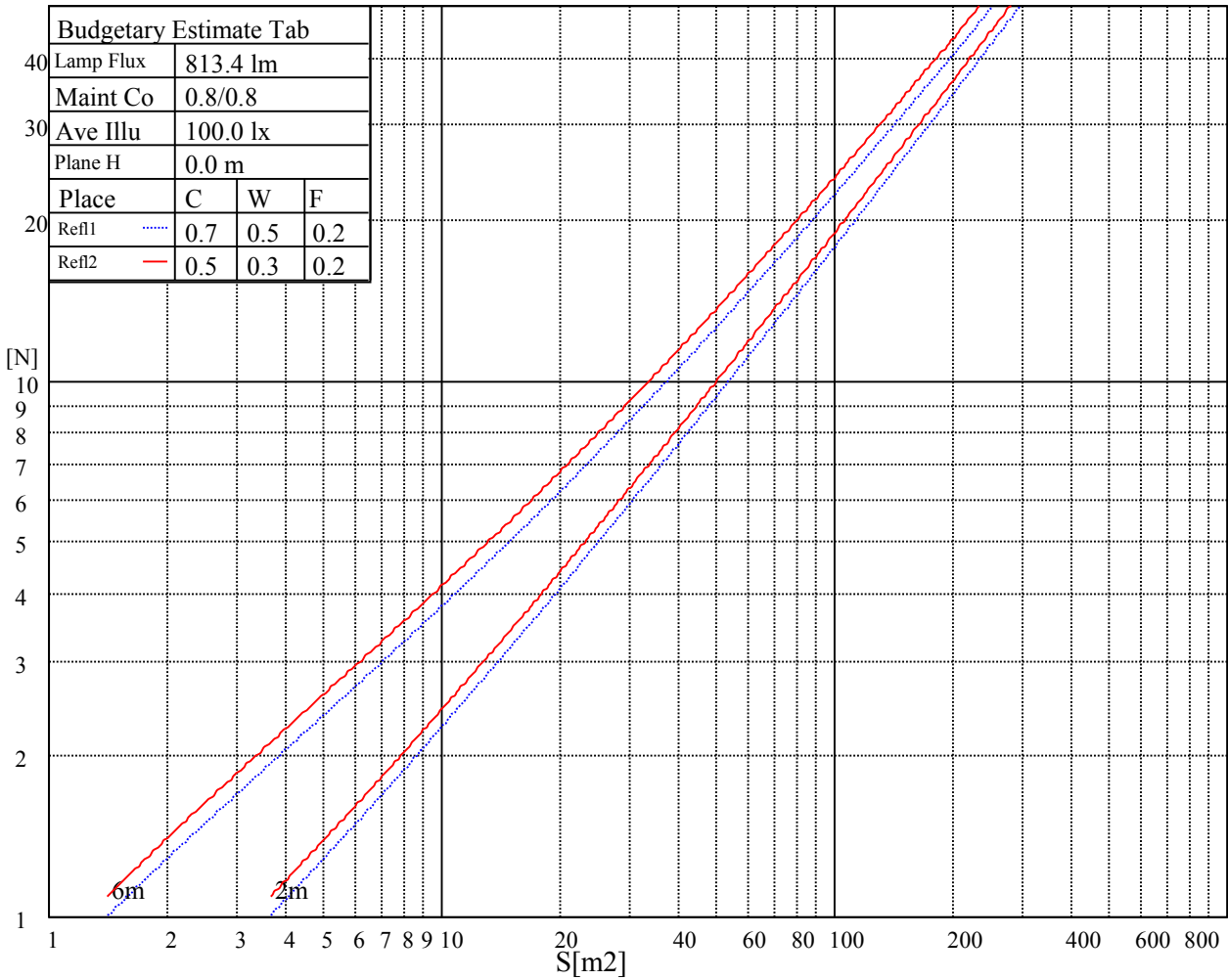
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

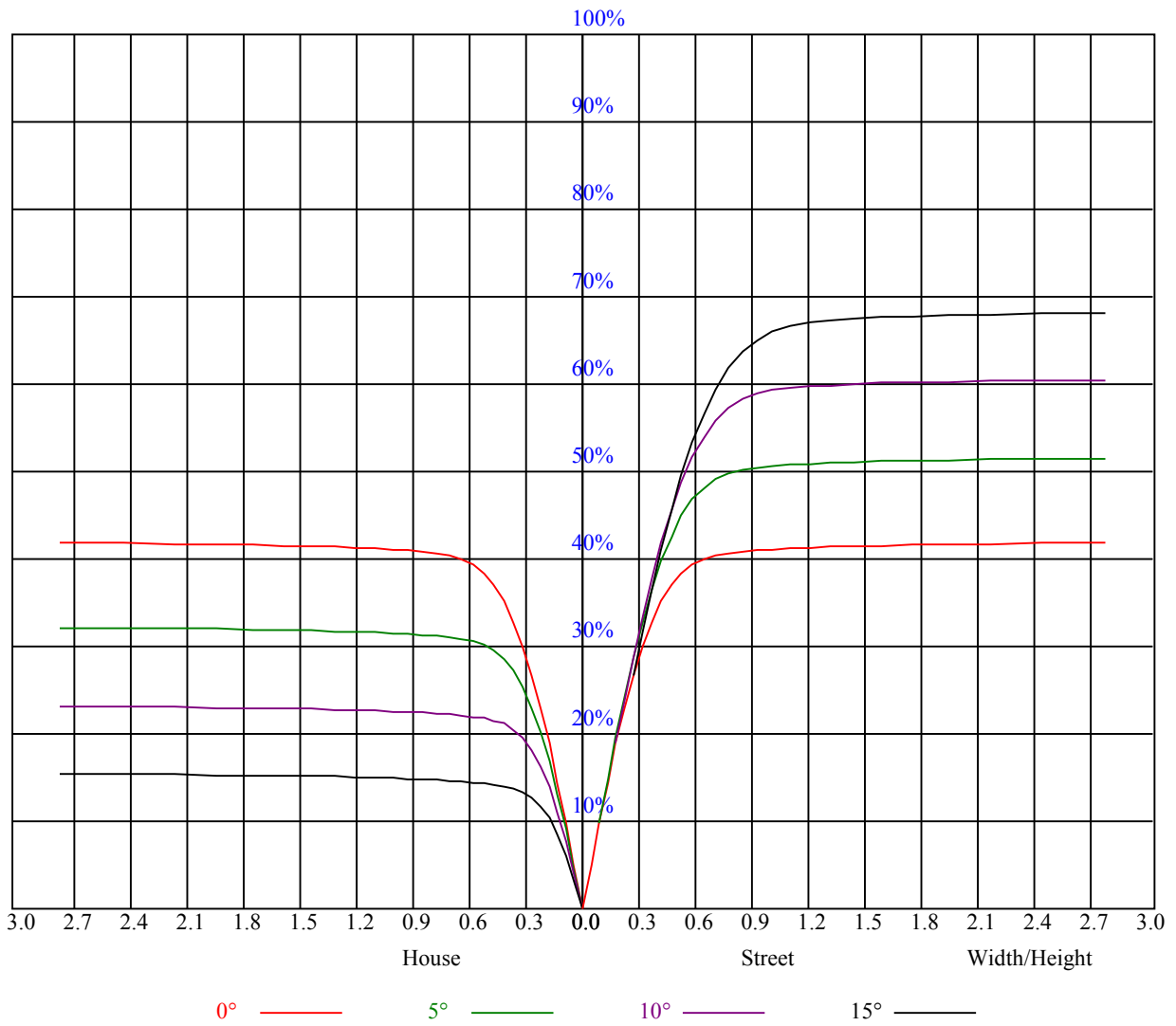
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.94	0.92	0.90	0.92	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80
2	0.88	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.78	0.79	0.78	0.77	0.75
3	0.83	0.79	0.76	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.75	0.73	0.76	0.74	0.72	0.71
4	0.79	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.67
5	0.75	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
6	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.61
7	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.55
9	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.52
10	0.59	0.54	0.52	0.58	0.54	0.51	0.58	0.54	0.51	0.57	0.54	0.51	0.57	0.53	0.51	0.50



Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1260.19	1242.86	1126.94	933.94	748.11	513.28	313.70	62.74	28.68
45.0	1260.79	1216.57	1086.31	874.78	689.55	443.37	226.46	54.38	26.23
90.0	1260.19	1186.87	1032.17	836.66	659.13	411.52	158.35	52.94	25.10
135.0	1263.18	1233.90	1118.57	898.68	719.42	500.13	310.72	67.46	31.61
180.0	1260.19	1235.69	1117.38	900.77	715.96	483.58	205.01	61.07	30.83
225.0	1260.79	1251.23	1166.50	965.73	763.52	547.58	262.91	70.57	33.34
270.0	1260.19	1260.19	1190.28	997.28	791.13	583.19	309.52	76.07	34.12
315.0	1263.77	1242.26	1123.83	916.67	734.06	488.24	202.56	58.08	27.49
360.0	1260.19	1242.86	1126.94	933.94	748.11	513.28	313.70	62.74	28.68
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	16.73	11.77	9.02	7.23	5.86	4.90	4.18	3.70	3.29
45.0	15.18	11.11	8.54	6.93	5.62	4.66	4.12	3.59	3.23
90.0	15.06	11.17	8.66	6.93	5.68	4.78	4.12	3.64	3.23
135.0	15.77	11.47	8.72	7.05	5.68	4.84	4.18	3.64	3.29
180.0	15.48	11.23	8.72	7.05	5.68	4.84	4.18	3.64	3.29
225.0	17.03	11.89	9.02	7.35	5.92	4.96	4.30	3.70	3.35
270.0	17.69	12.19	9.32	7.47	5.98	5.02	4.30	3.76	3.29
315.0	16.13	12.01	9.26	7.47	6.04	5.02	4.30	3.76	3.35
360.0	16.73	11.77	9.02	7.23	5.86	4.90	4.18	3.70	3.29
C/ $\gamma$ (°)	90.0								
0.0	3.05								
45.0	3.05								
90.0	3.05								
135.0	3.05								
180.0	3.05								
225.0	3.05								
270.0	3.05								
315.0	3.05								
360.0	3.05								