



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

NATA

LumCAT: 2-1464-A
Luminaire: 92.70.135.00
Report No: NATA0100
Test No: GC2018101811
LampCAT: LUMILEDS LUXEON CoB 1208
Lamp flux(lm): 3643.0
Number of Lamps: 1
Length(mm): 64
Phm Type: C

Voltage(V): 35.0000
Current(A): 0.7000
Power (W): 24.5000
PF: 0.0000
Ballast type: DC
Width(mm): 64
Height(mm): 0

Photometric Results

Lumens(lm): 3083.32
Efficiency(%): 84.64%
Lumens(lm)/Power(W): 128.87
Central intensity(cd): 12877.030
Maximum intensity(cd): 12877.030
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=26.6
 [C90/270]Total=26.6
Field angle(10%Imax): [C0/180]Total=48.3
 [C90/270]Total=48.3
Maximum s/h(1/2): C0_180=0.45 C90_270=0.45
Maximum s/h(1/4): C0_180=0.46 C90_270=0.46
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.67%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.401%

Equipment:
Temperature(°C): 25.0

Date: 2018/10/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

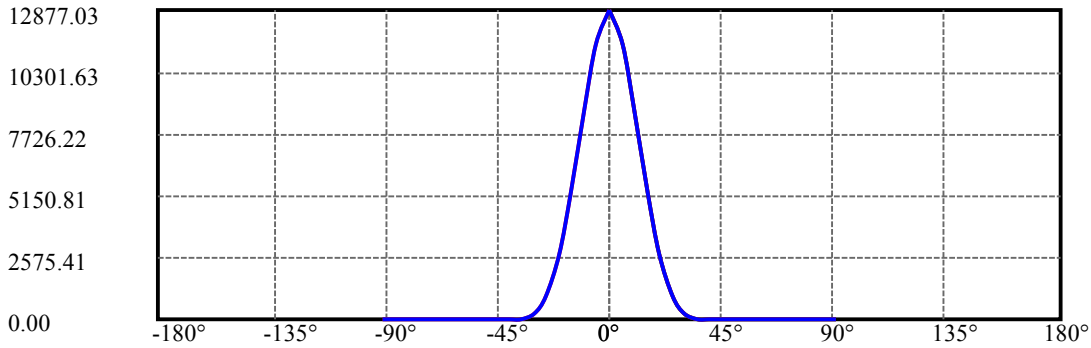
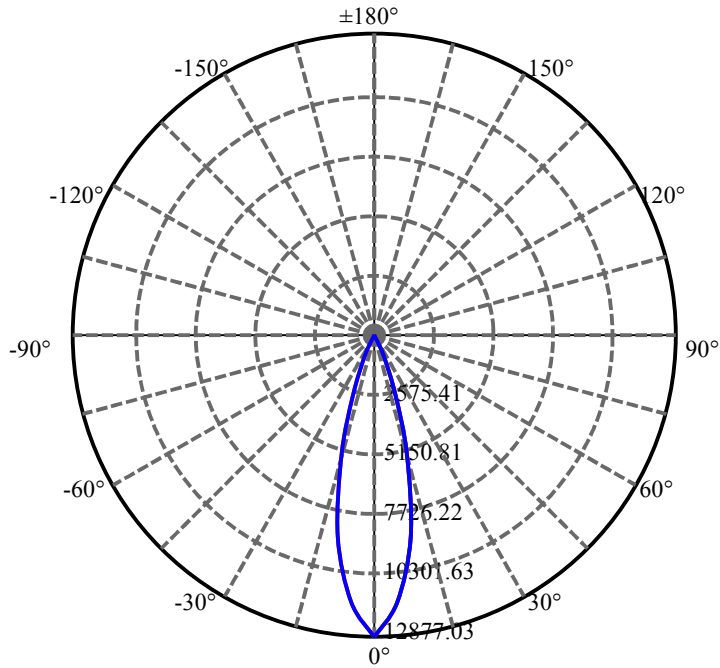
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12877.031	77.007	77.007	2.114%	2.498%
5.0	11445.469	546.788	623.795	15.009%	20.231%
10.0	8747.789	832.641	1456.437	22.856%	47.236%
15.0	5250.305	744.852	2201.289	20.446%	71.393%
20.0	2735.297	512.797	2714.086	14.076%	88.025%
25.0	994.507	230.380	2944.466	6.324%	95.497%
30.0	203.927	55.890	3000.357	1.534%	97.309%
35.0	29.377	9.236	3009.592	.254%	97.609%
40.0	20.510	7.226	3016.819	.198%	97.843%
45.0	17.360	6.729	3023.548	.185%	98.061%
50.0	15.764	6.619	3030.167	.182%	98.276%
55.0	14.948	6.712	3036.879	.184%	98.494%
60.0	14.484	6.876	3043.755	.189%	98.717%
65.0	14.168	7.038	3050.793	.193%	98.945%
70.0	13.971	7.196	3057.989	.198%	99.178%
75.0	13.760	7.285	3065.275	.200%	99.415%
80.0	13.521	7.299	3072.573	.200%	99.651%
85.0	13.247	7.233	3079.807	.199%	99.886%
90.0	12.832	3.517	3083.324	.097%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3000.36	82.36%	97.31%
0-40	3016.82	82.81%	97.84%
0-60	3043.75	83.55%	98.72%
0-90	3079.81	84.54%	99.89%
0-120	3079.81	84.54%	99.89%
0-180	3083.32	84.64%	100.00%
60-90	42.93	1.18%	1.39%
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%
0-17.59	2466.66	67.71%	80.00%

ZONAL LUMEN SUMMARY

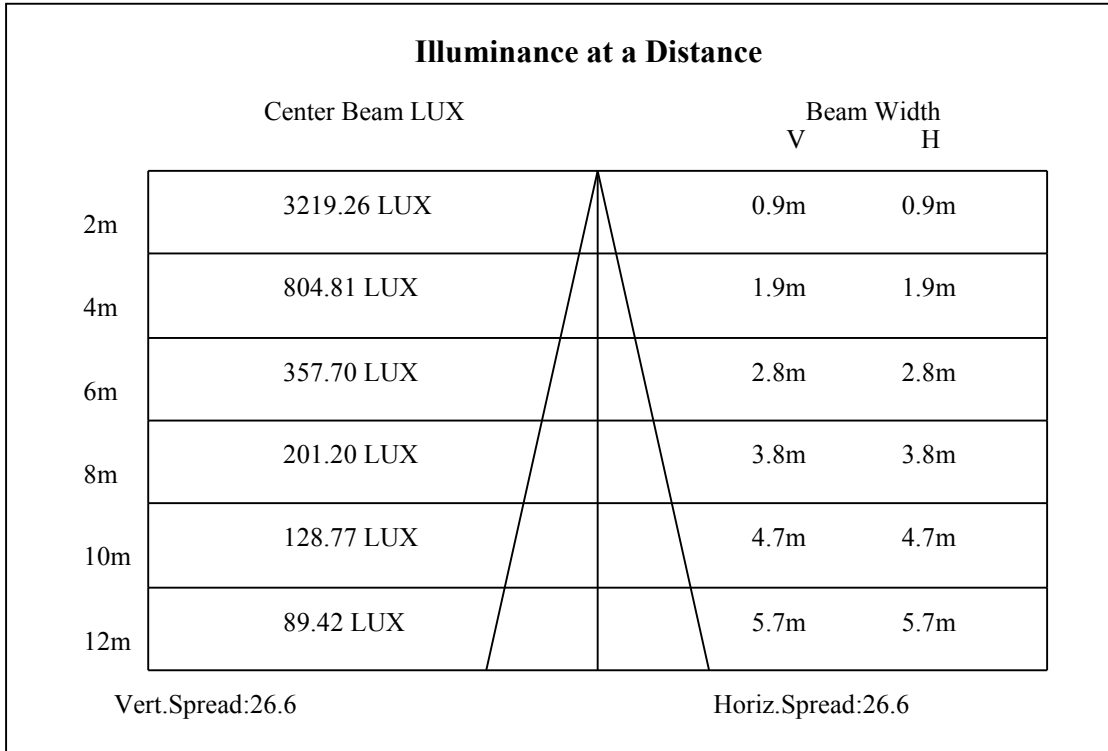
0-10	1456.44
10-20	1257.65
20-30	286.27
30-40	16.46
40-50	13.35
50-60	13.59
60-70	14.23
70-80	14.58
80-90	7.23
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

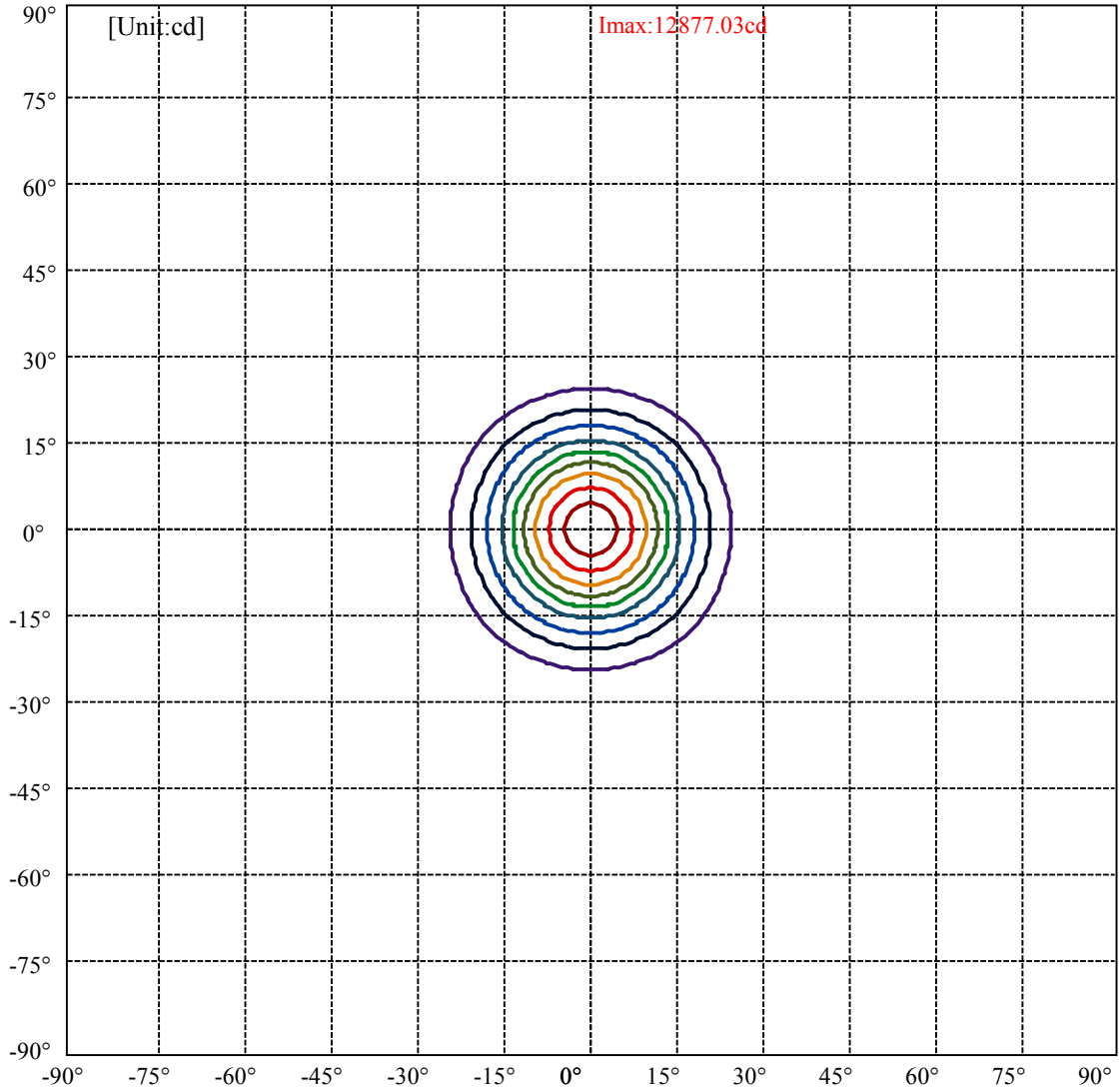


C0(Max): ———
C0/C180: ———
C90/C270: ———

Field angle(10%Imax):C0/180Left:24.2 Right:24.2
:C90/270Left:24.2 Right:24.2

Beam Angle(50%Imax):C0/180Left:13.3 Right:13.3
:C90/270Left:13.3 Right:13.3



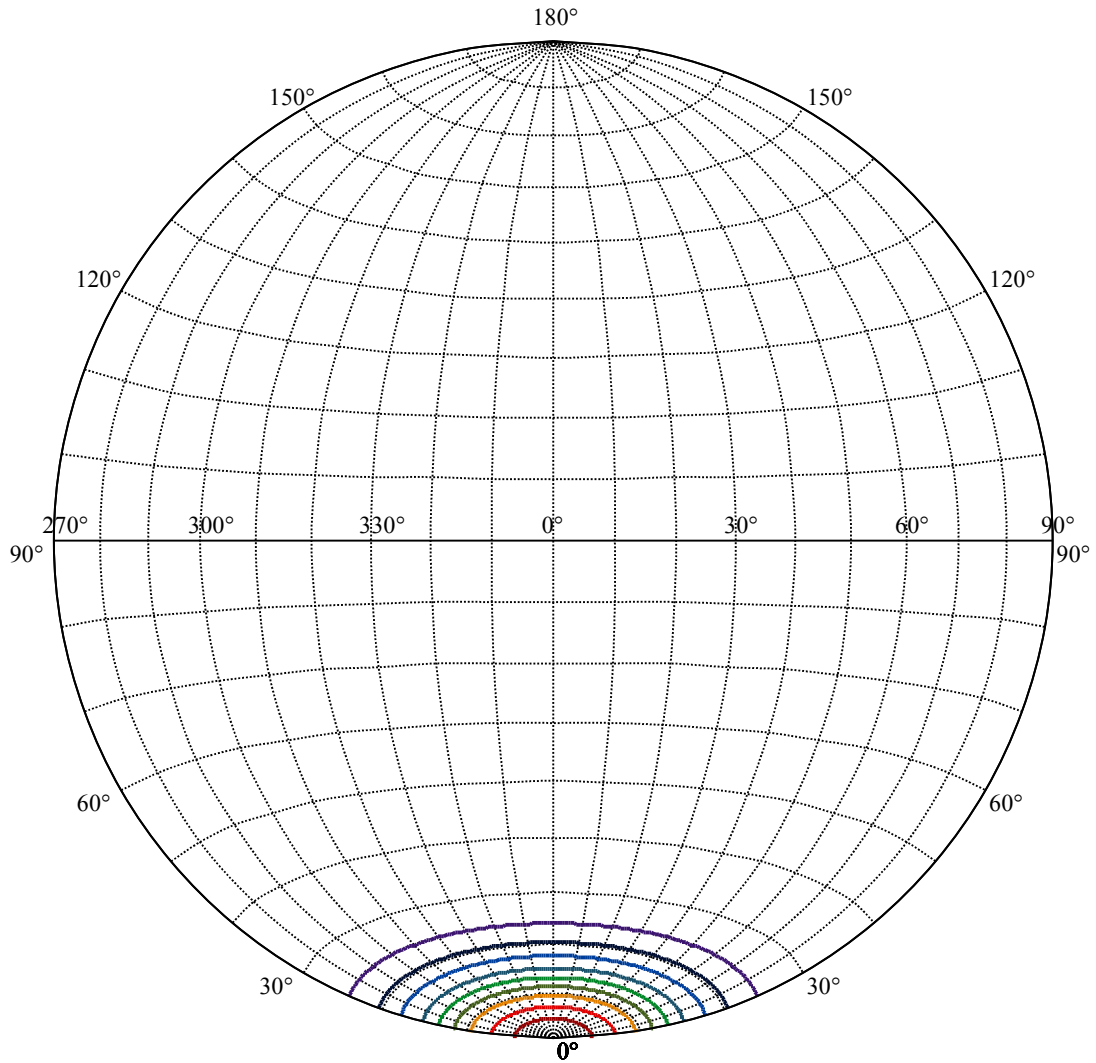


(10%Imax) 1287.7	—
(20%Imax) 2575.41	—
(30%Imax) 3863.11	—
(40%Imax) 5150.81	—
(50%Imax) 6438.52	—
(60%Imax) 7726.22	—
(70%Imax) 9013.92	—
(80%Imax) 10301.6	—
(90%Imax) 11589.3	—

Equipment:
Temperature(°C): 25.0

Date: 2018/10/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50



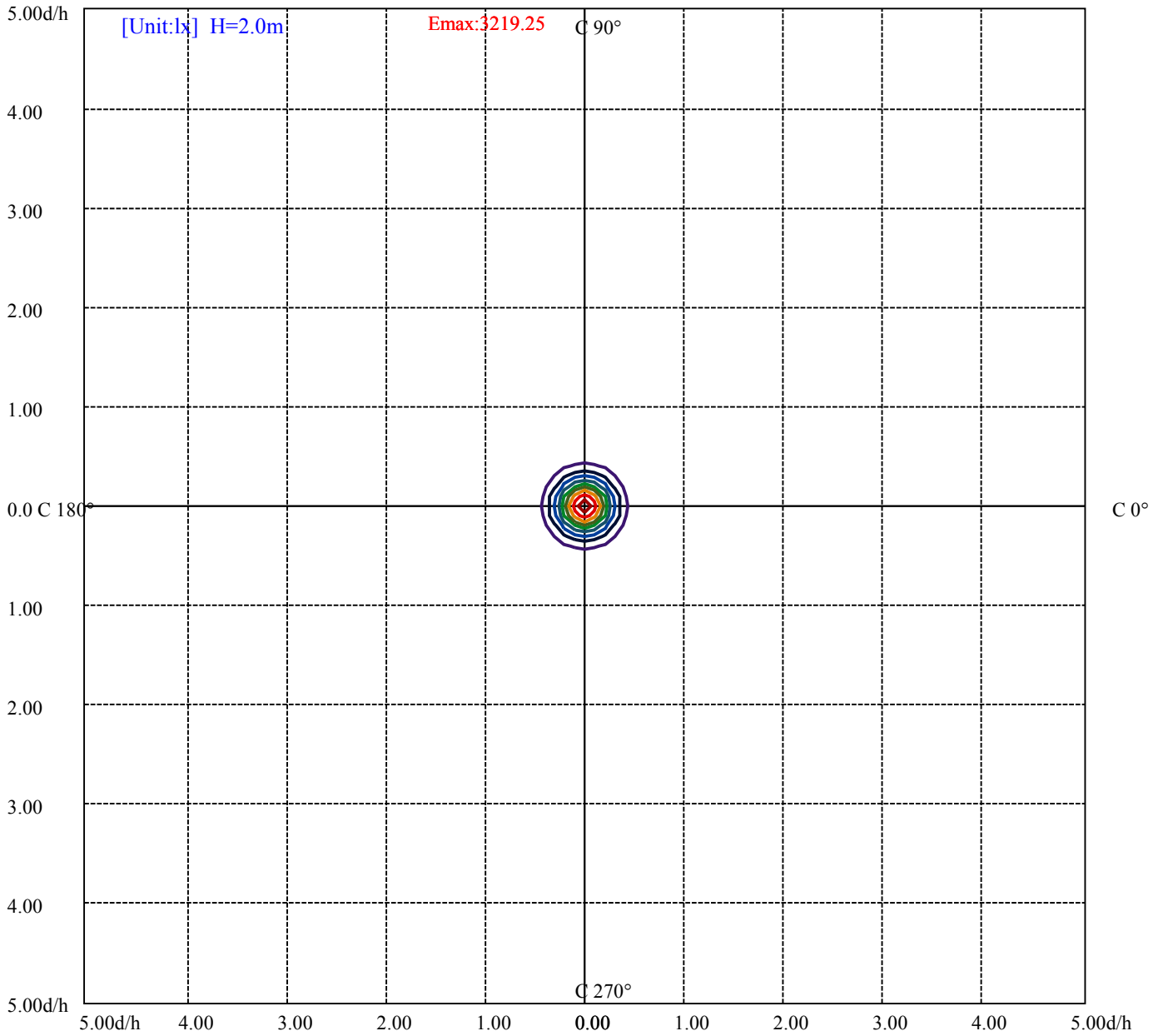
House

[Unit:cd]

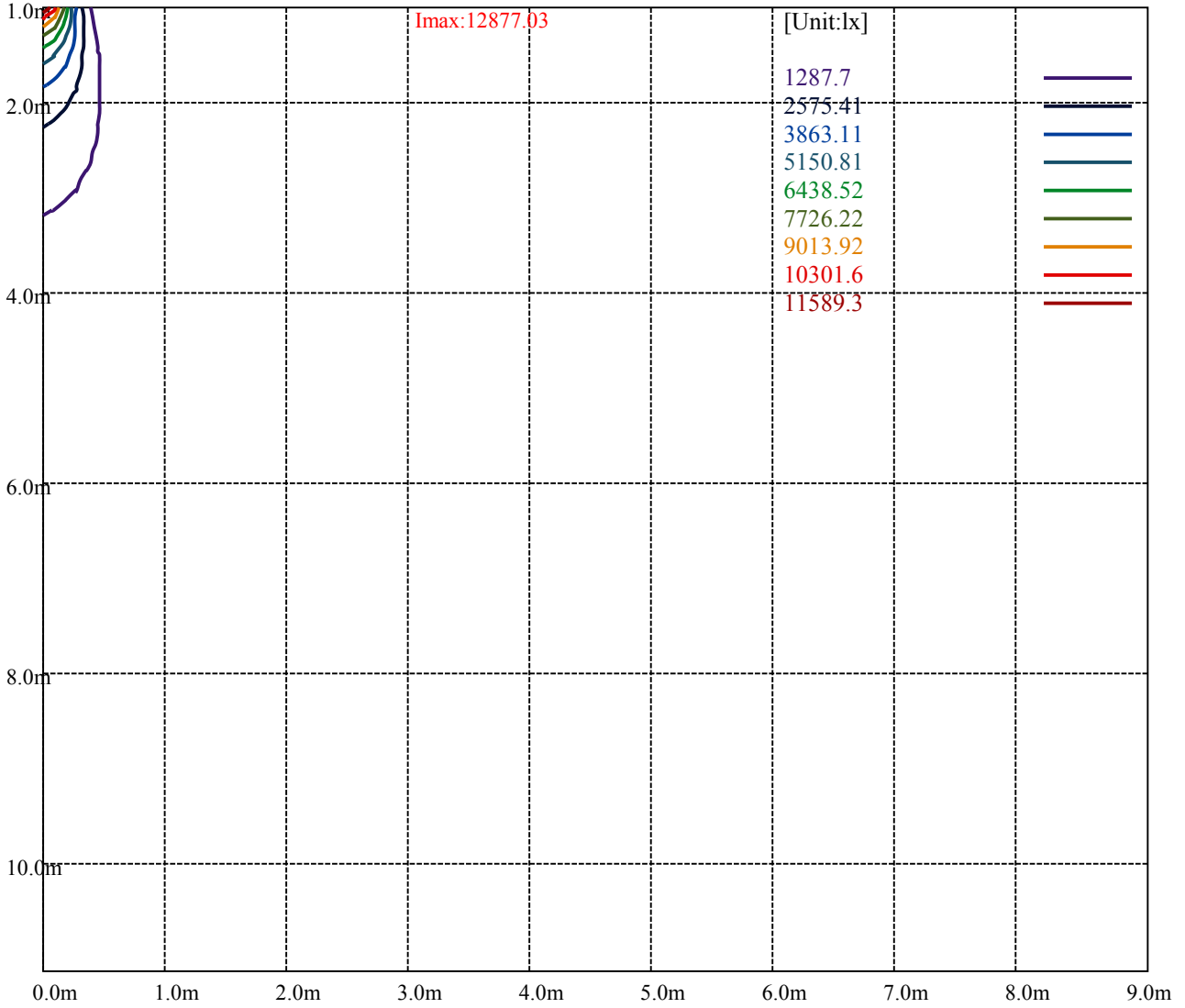
Road

Imax:12877.03

(10%Imax) 1287.7	—
(20%Imax) 2575.41	—
(30%Imax) 3863.11	—
(40%Imax) 5150.81	—
(50%Imax) 6438.52	—
(60%Imax) 7726.22	—
(70%Imax) 9013.92	—
(80%Imax) 10301.6	—
(90%Imax) 11589.3	—



- (10%Emax) 321.925
- (20%Emax) 643.85
- (30%Emax) 965.775
- (40%Emax) 1287.7
- (50%Emax) 1609.623
- (60%Emax) 1931.547
- (70%Emax) 2253.472
- (80%Emax) 2575.4
- (90%Emax) 2897.325



Luminance Table

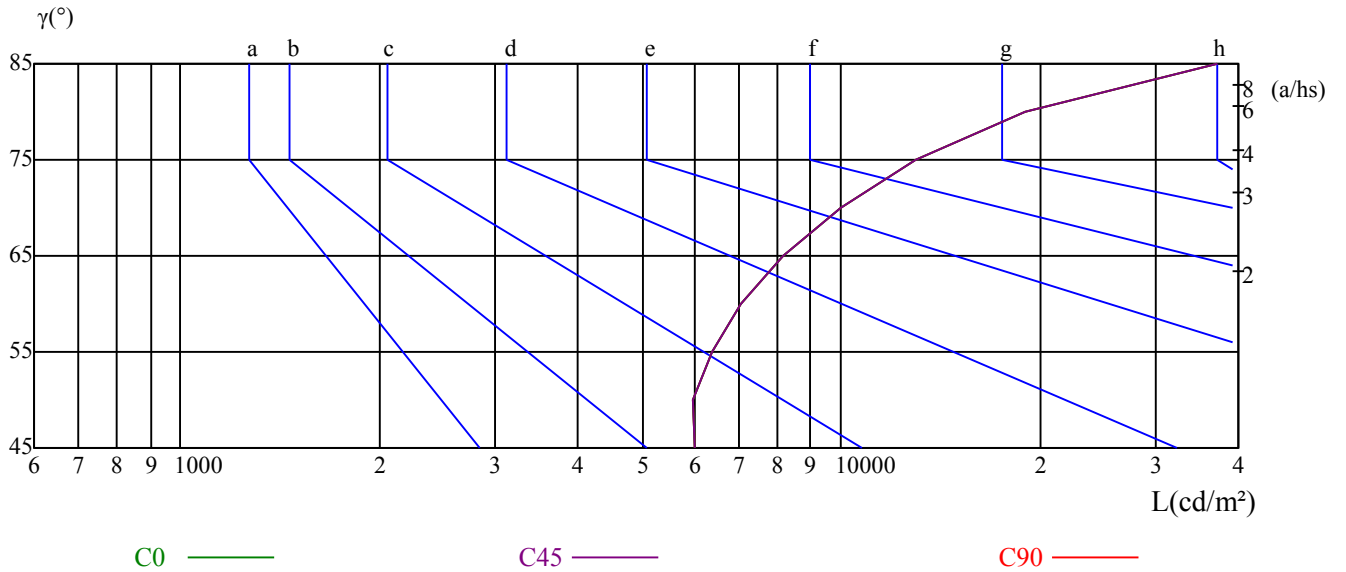
γ	45	50	55	60	65	70	75	80	85
C0	5994	5987	6363	7072	8185	9973	12980	19010	37107
C45	5994	5987	6363	7072	8185	9973	12980	19010	37107
C90	5994	5987	6363	7072	8185	9973	12980	19010	37107

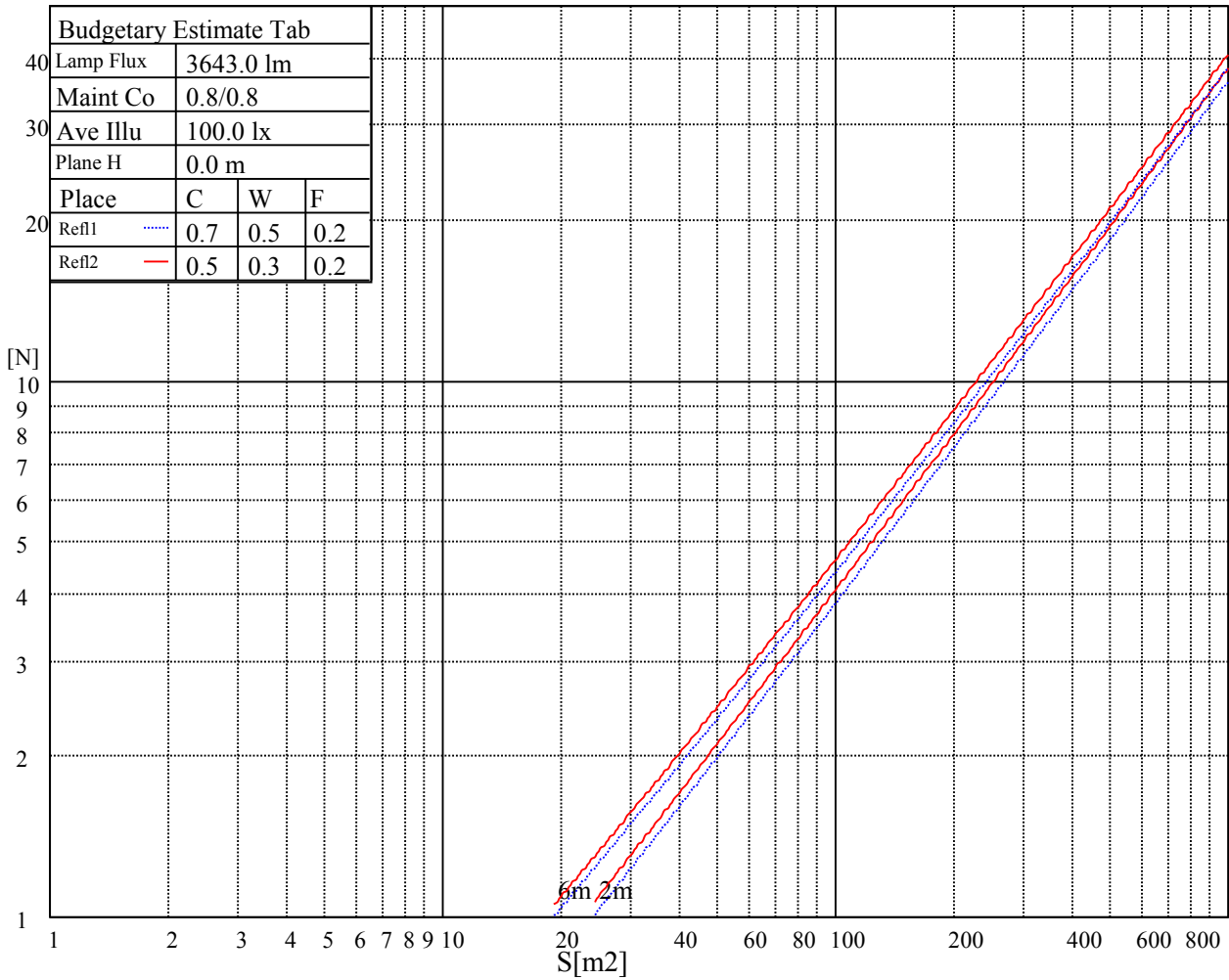
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
8185	8185	8185	12980	12980	12980	37107	37107	37107

Glare Table

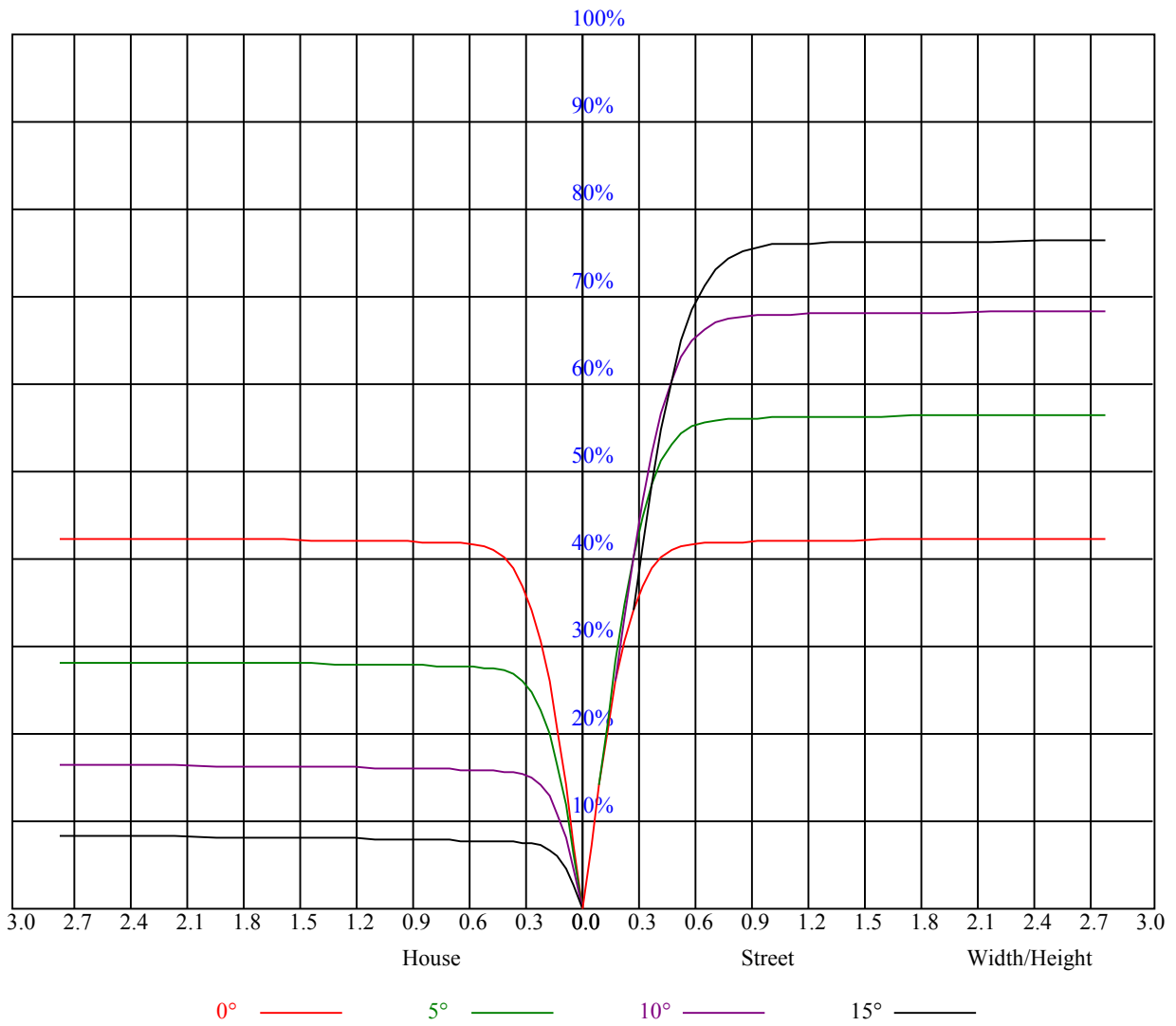
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.87
1	0.95	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.86	0.87	0.85	0.84	0.84	0.82	0.81	0.80
2	0.91	0.88	0.85	0.89	0.87	0.84	0.87	0.84	0.82	0.84	0.82	0.81	0.82	0.80	0.79	0.78
3	0.87	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.77	0.76
4	0.84	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.76	0.79	0.77	0.75	0.74
5	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.78	0.76	0.74	0.77	0.75	0.73	0.72
6	0.79	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.76	0.74	0.72	0.75	0.73	0.71	0.70
7	0.77	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.74	0.72	0.70	0.69
8	0.75	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.73	0.71	0.69	0.73	0.70	0.68	0.68
9	0.73	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.72	0.69	0.67	0.71	0.69	0.67	0.66
10	0.72	0.68	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.70	0.67	0.66	0.65



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	12858.75	11722.50	9247.50	5709.38	2908.13	1202.63	286.31	34.03	22.56
45.0	12898.13	11553.75	8943.75	5355.00	2925.00	999.00	318.94	28.86	20.31
90.0	12858.75	11175.75	7898.63	4573.69	2217.38	686.14	84.88	24.92	19.52
135.0	12892.50	11525.63	8611.88	5265.00	2896.88	1008.00	310.50	27.23	20.14
180.0	12858.75	11210.06	8299.13	4859.44	2473.88	822.26	95.51	26.38	20.14
225.0	12898.13	11152.13	8678.81	5121.56	2615.63	983.25	117.34	27.28	19.86
270.0	12858.75	12009.38	9489.38	5889.38	3110.63	1257.75	289.13	36.00	20.98
315.0	12892.50	11214.56	8813.25	5229.00	2734.88	997.03	128.81	30.32	20.59
360.0	12858.75	11722.50	9247.50	5709.38	2908.13	1202.63	286.31	34.03	22.56
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.28	16.26	15.30	14.74	14.34	14.18	13.95	13.73	13.50
45.0	17.21	15.64	14.79	14.34	14.01	13.78	13.61	13.33	13.05
90.0	17.16	15.81	15.08	14.68	14.46	14.23	13.89	13.56	13.11
135.0	17.38	15.75	14.91	14.40	14.12	13.95	13.73	13.50	13.22
180.0	17.21	15.75	14.91	14.46	14.12	13.89	13.73	13.50	13.39
225.0	16.76	15.30	14.57	14.12	13.84	13.67	13.56	13.39	13.16
270.0	17.61	15.98	15.13	14.74	14.40	14.18	13.95	13.67	13.33
315.0	17.27	15.64	14.91	14.40	14.06	13.89	13.67	13.50	13.22
360.0	18.28	16.26	15.30	14.74	14.34	14.18	13.95	13.73	13.50
C/ γ (°)	90.0								
0.0	13.22								
45.0	12.77								
90.0	12.71								
135.0	12.83								
180.0	12.83								
225.0	12.66								
270.0	12.71								
315.0	12.94								
360.0	13.22								