



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: LN01D04536DA-N

Luminaire: 97.70.234.00

Report No: 210106-B005

Test No: 210106-C005

LampCAT: TRIDONIC SLE G7 9MM

Lamp flux(lm): 1978.0

Number of Lamps: 1

Length(mm): 92

Phm Type: C

Voltage(V): 36.1000

Current(A): 0.3810

Power (W): 13.7540

PF: 0.0000

Ballast type: DC

Width(mm): 92

Height(mm): 50

Photometric Results

Lumens(lm): 1815.75

Efficiency(%): 91.80%

Lumens(lm)/Power(W): 132.02

Central intensity(cd): 3621.938

Maximum intensity(cd): 3621.938

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=39.8

[C90/270]Total=39.8

Field angle(10%Imax): [C0/180]Total=64.6

[C90/270]Total=64.6

Maximum s/h(1/2): C0_180=0.66 C90_270=0.66

Maximum s/h(1/4): C0_180=0.62 C90_270=0.62

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.80%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.897%

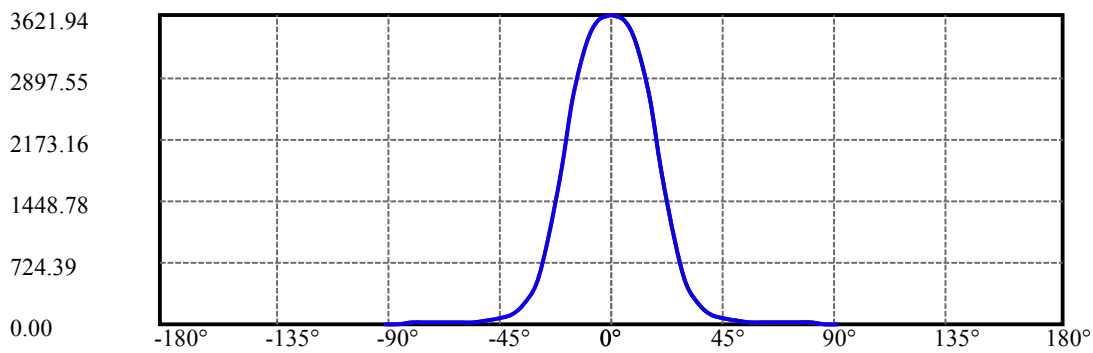
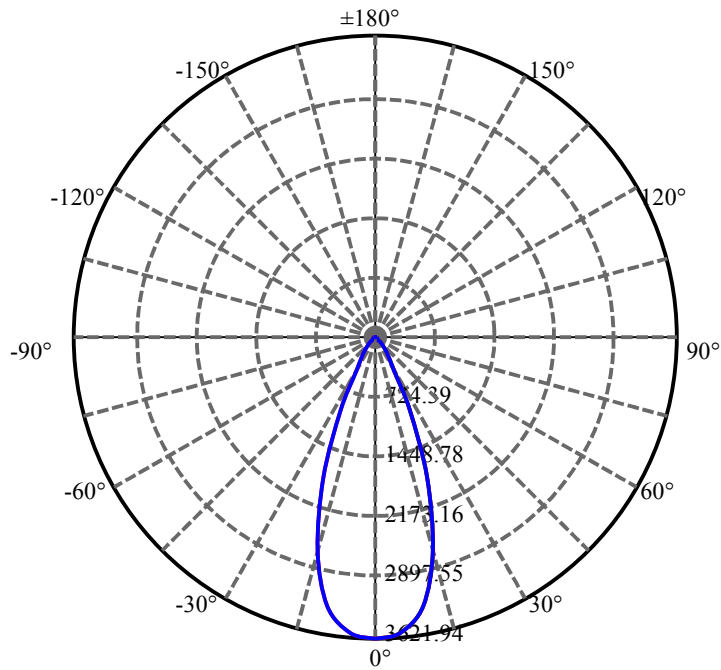
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3621.938	0.000	0	.000%	.000%
5.0	3561.398	85.875	85.875	4.341%	4.729%
10.0	3290.273	245.106	330.981	12.392%	18.228%
15.0	2657.602	352.824	683.805	17.837%	37.660%
20.0	1791.773	366.691	1050.496	18.538%	57.855%
25.0	978.989	290.602	1341.097	14.692%	73.859%
30.0	477.591	184.331	1525.429	9.319%	84.011%
35.0	225.998	103.608	1629.037	5.238%	89.717%
40.0	105.216	55.261	1684.298	2.794%	92.761%
45.0	58.950	30.397	1714.694	1.537%	94.435%
50.0	38.552	19.702	1734.396	.996%	95.520%
55.0	26.571	14.160	1748.556	.716%	96.299%
60.0	20.363	10.849	1759.405	.548%	96.897%
65.0	16.910	9.061	1768.466	.458%	97.396%
70.0	19.470	9.212	1777.677	.466%	97.903%
75.0	25.763	11.823	1789.5	.598%	98.554%
80.0	21.445	12.631	1802.132	.639%	99.250%
85.0	10.132	8.580	1810.712	.434%	99.723%
90.0	8.262	5.036	1815.748	.255%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1525.43	77.12%	84.01%
0-40	1684.30	85.15%	92.76%
0-60	1759.40	88.95%	96.90%
0-90	1810.71	91.54%	99.72%
0-120	1810.71	91.54%	99.72%
0-180	1815.75	91.80%	100.00%
60-90	62.16	3.14%	3.42%
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%
0-28.02	1452.60	73.44%	80.00%

ZONAL LUMEN SUMMARY

0-10	330.98
10-20	719.51
20-30	474.93
30-40	158.87
40-50	50.10
50-60	25.01
60-70	18.27
70-80	24.45
80-90	8.58
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: —————

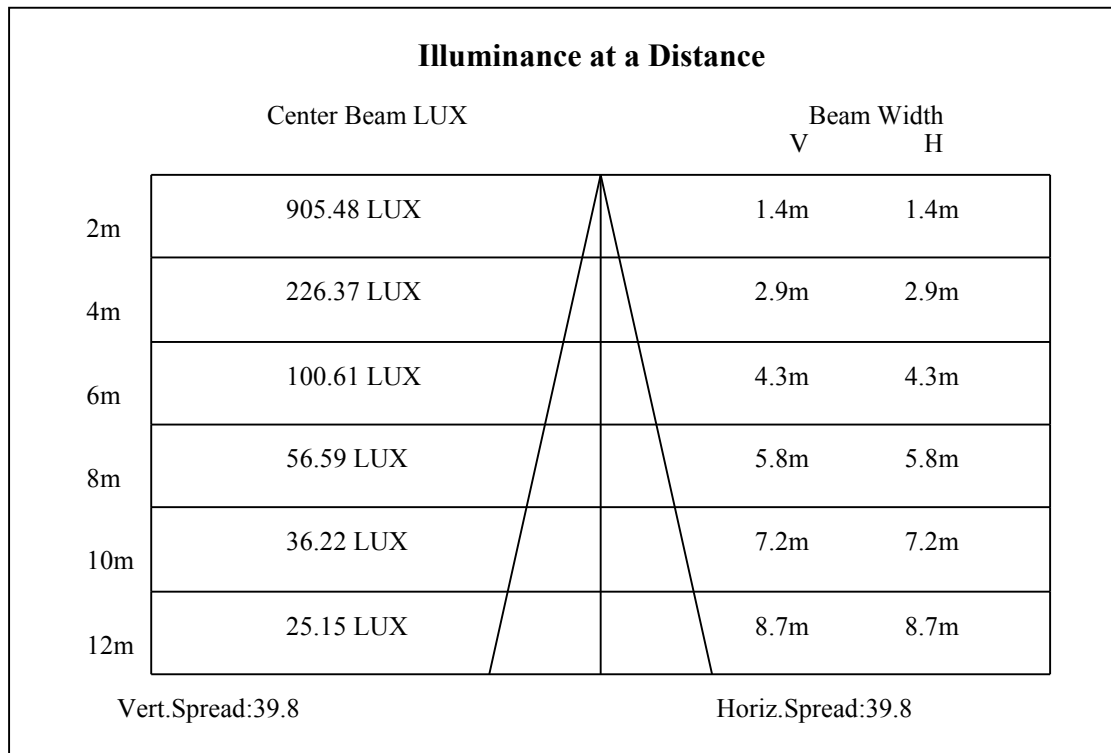
C90/C270: —————

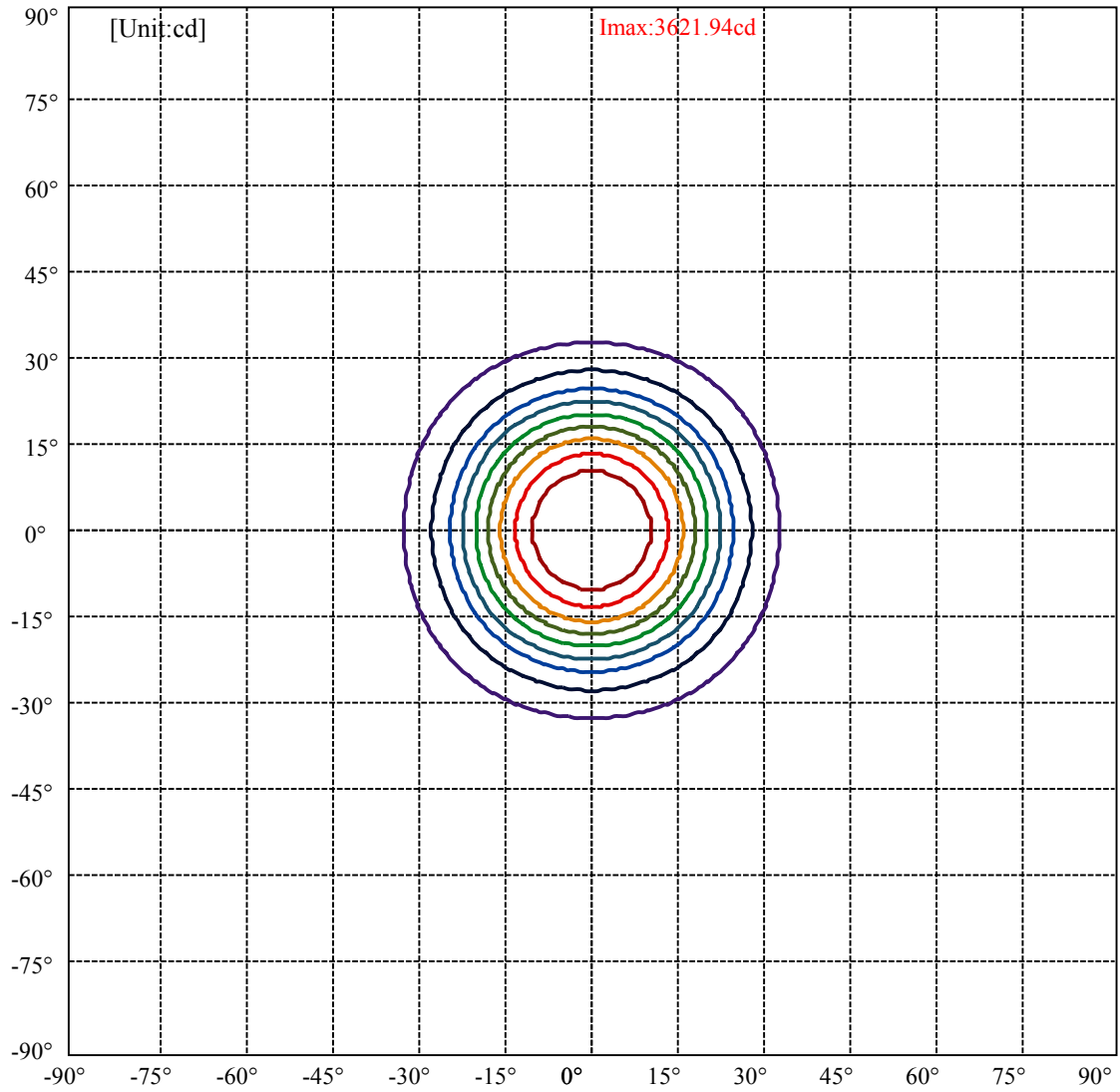
Field angle(10%Imax):C0/180Left:32.3 Right:32.3

:C90/270Left:32.3 Right:32.3

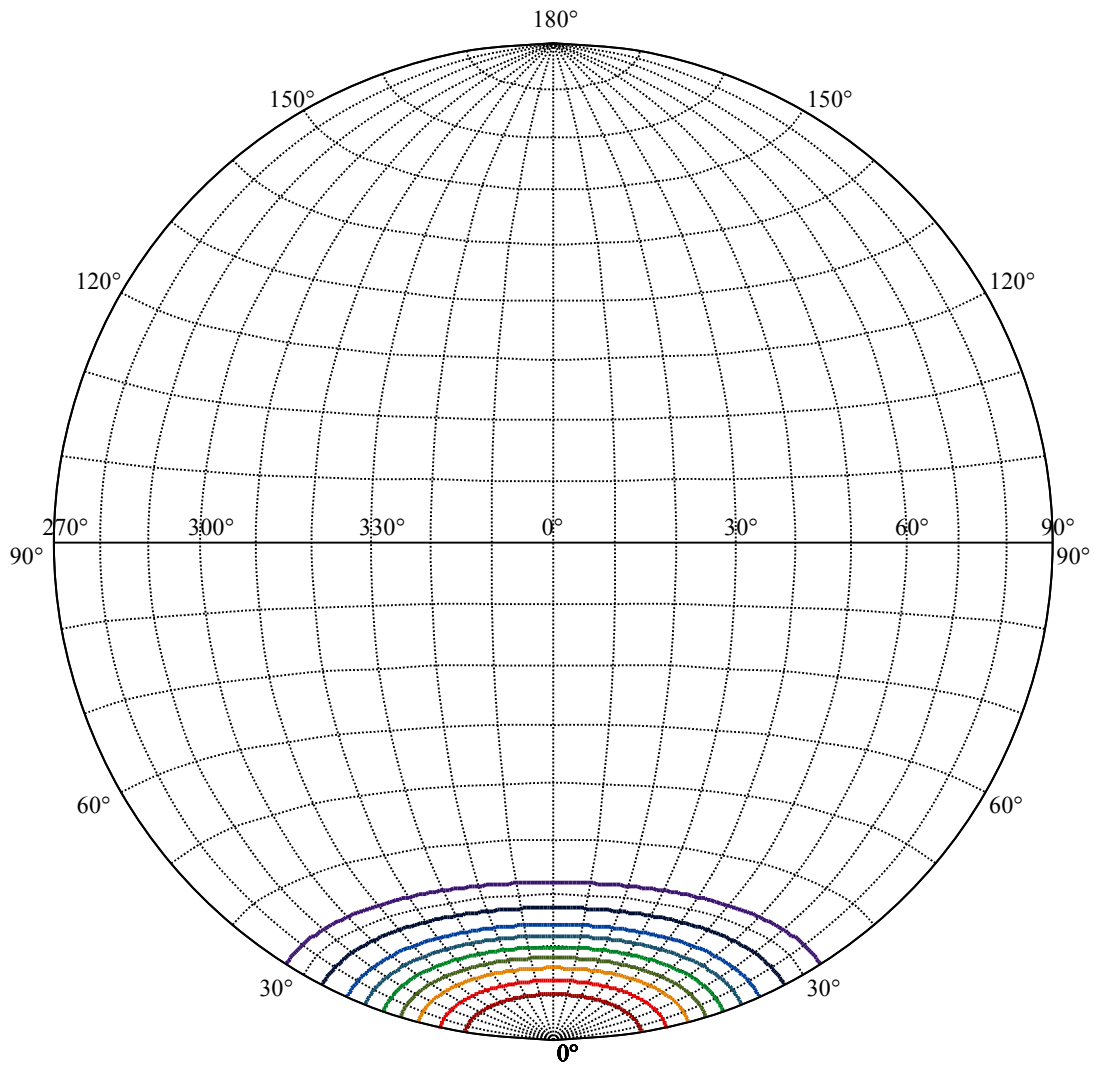
Beam Angle(50%Imax):C0/180Left:19.9 Right:19.9

:C90/270Left:19.9 Right:19.9





(10%Imax) 362.194	—
(20%Imax) 724.388	—
(30%Imax) 1086.58	—
(40%Imax) 1448.78	—
(50%Imax) 1810.97	—
(60%Imax) 2173.16	—
(70%Imax) 2535.36	—
(80%Imax) 2897.55	—
(90%Imax) 3259.74	—



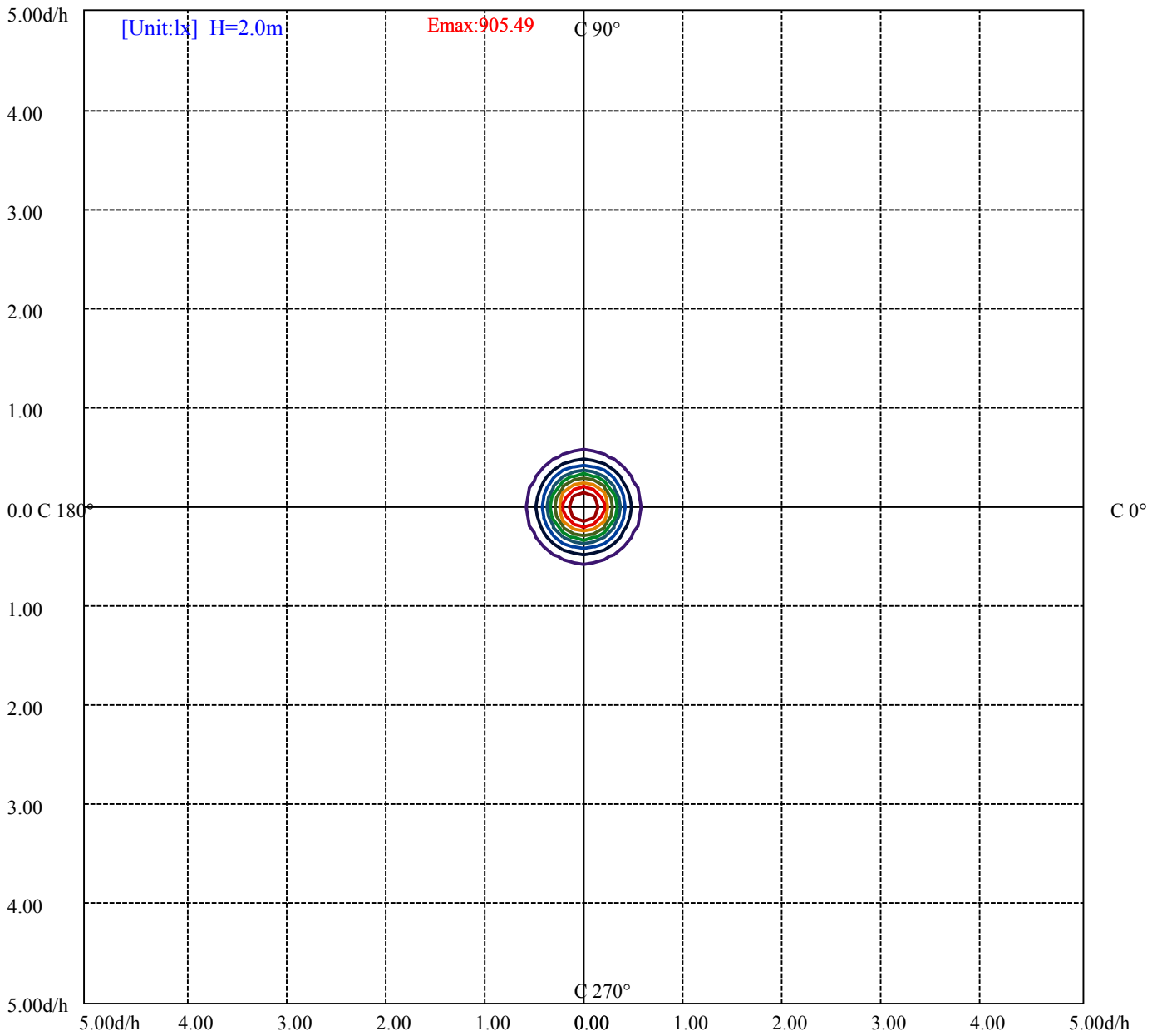
House

[Unit:cd]

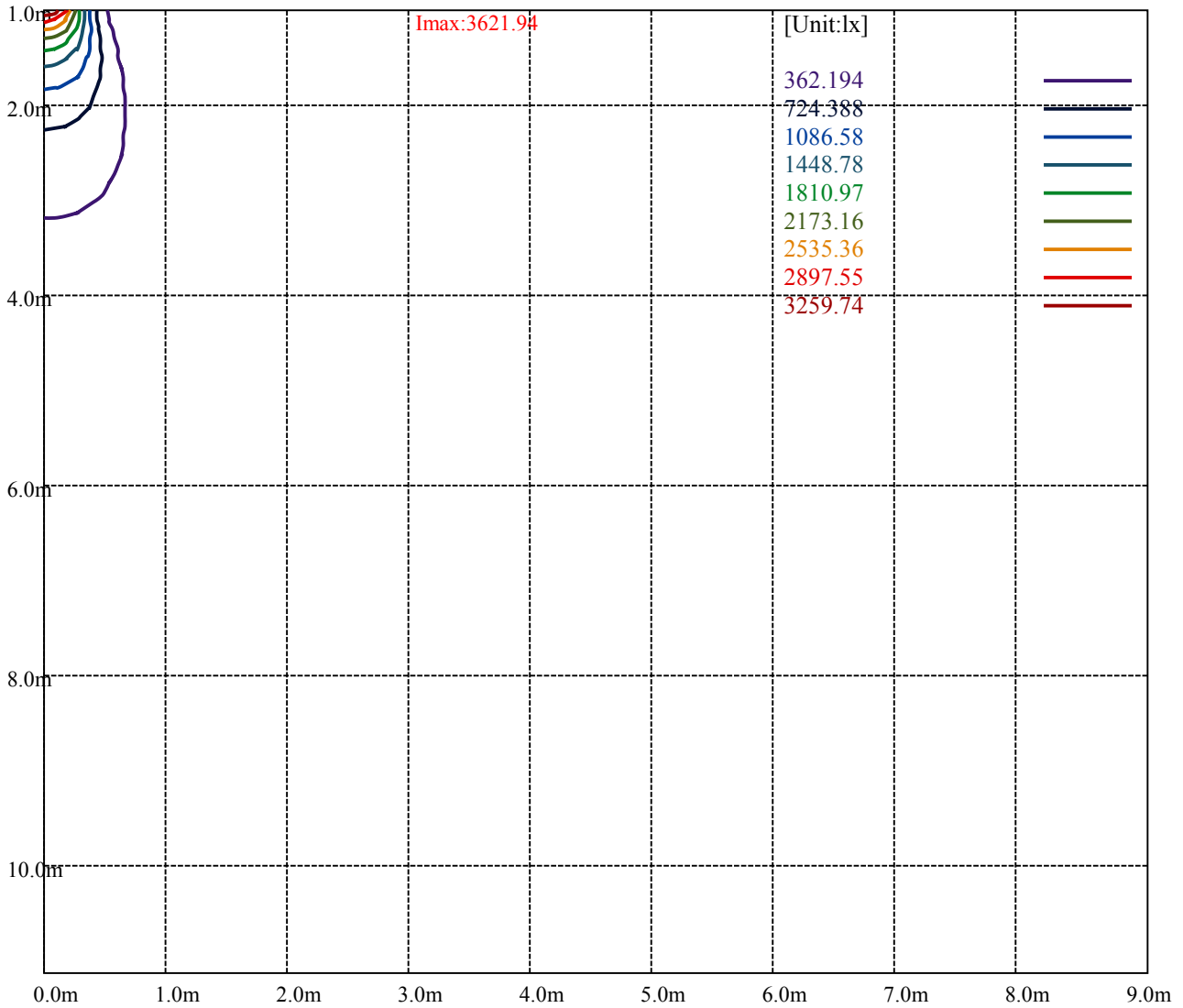
Road

I_{max}:3621.94

(10%I _{max}) 362.194	—
(20%I _{max}) 724.388	—
(30%I _{max}) 1086.58	—
(40%I _{max}) 1448.78	—
(50%I _{max}) 1810.97	—
(60%I _{max}) 2173.16	—
(70%I _{max}) 2535.36	—
(80%I _{max}) 2897.55	—
(90%I _{max}) 3259.74	—



- (10%Emax) 90.5485
- (20%Emax) 181.0968
- (30%Emax) 271.645
- (40%Emax) 362.1925
- (50%Emax) 452.7425
- (60%Emax) 543.29
- (70%Emax) 633.8375
- (80%Emax) 724.3875
- (90%Emax) 814.935



Luminance Table

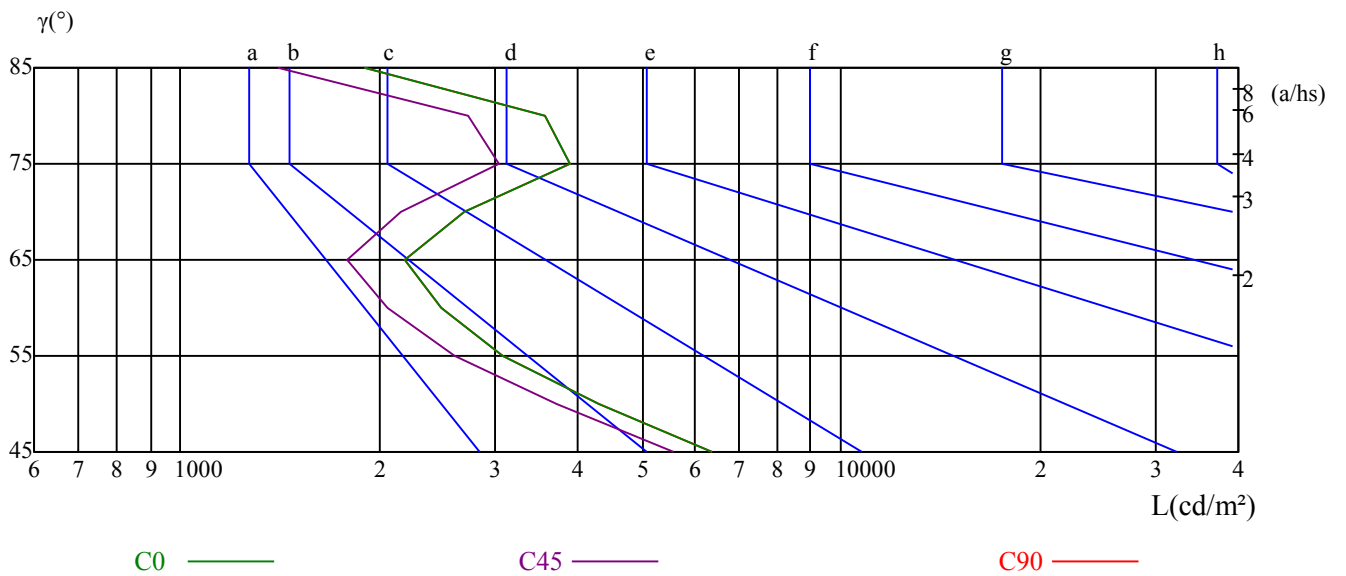
γ	45	50	55	60	65	70	75	80	85
C0	6381	4301	3081	2478	2183	2698	3883	3574	1904
C45	5569	3698	2609	2064	1785	2161	3040	2723	1404
C90	6381	4301	3081	2478	2183	2698	3883	3574	1904

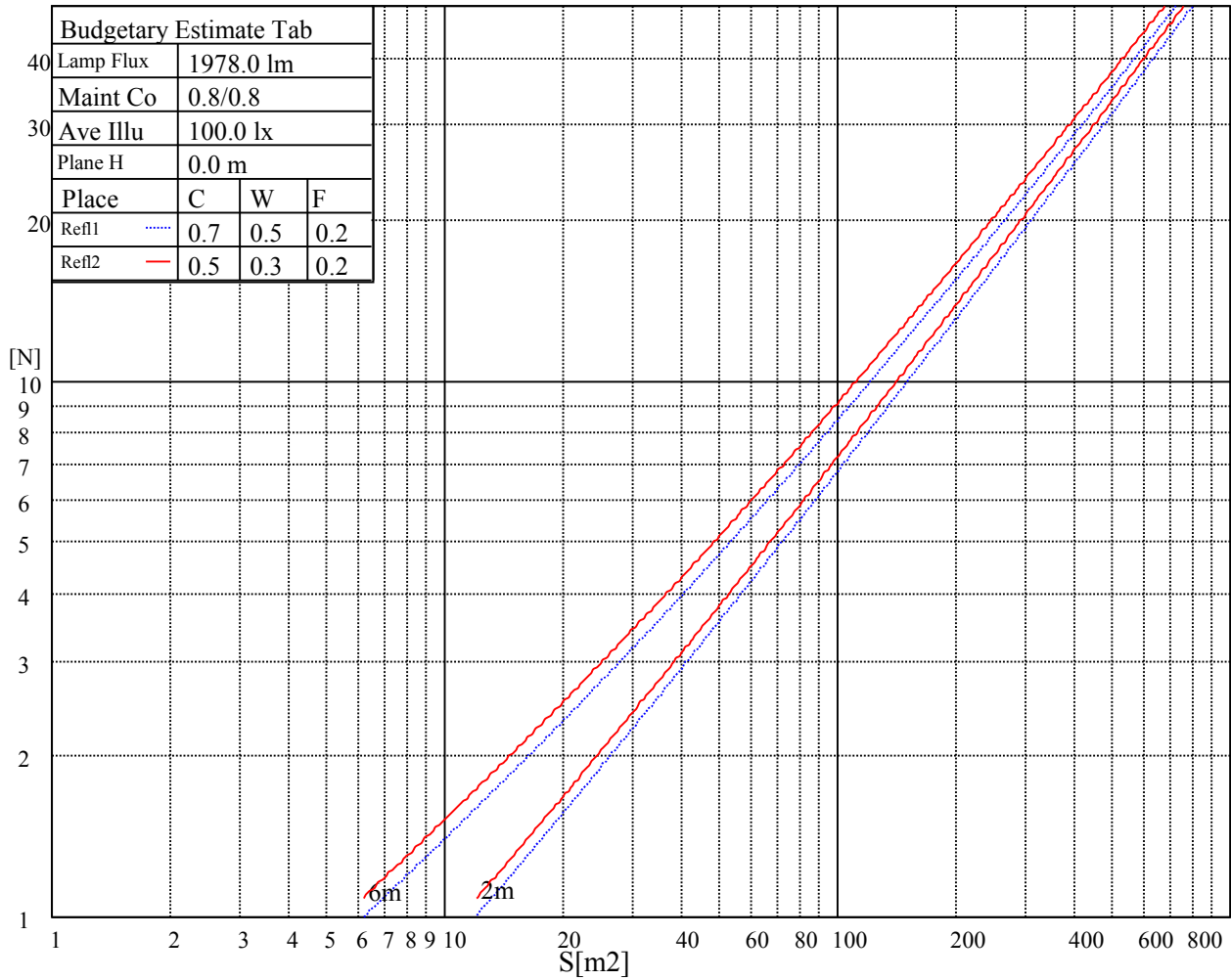
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4727	4727	4727	11760	11760	11760	13735	13735	13735

Glare Table

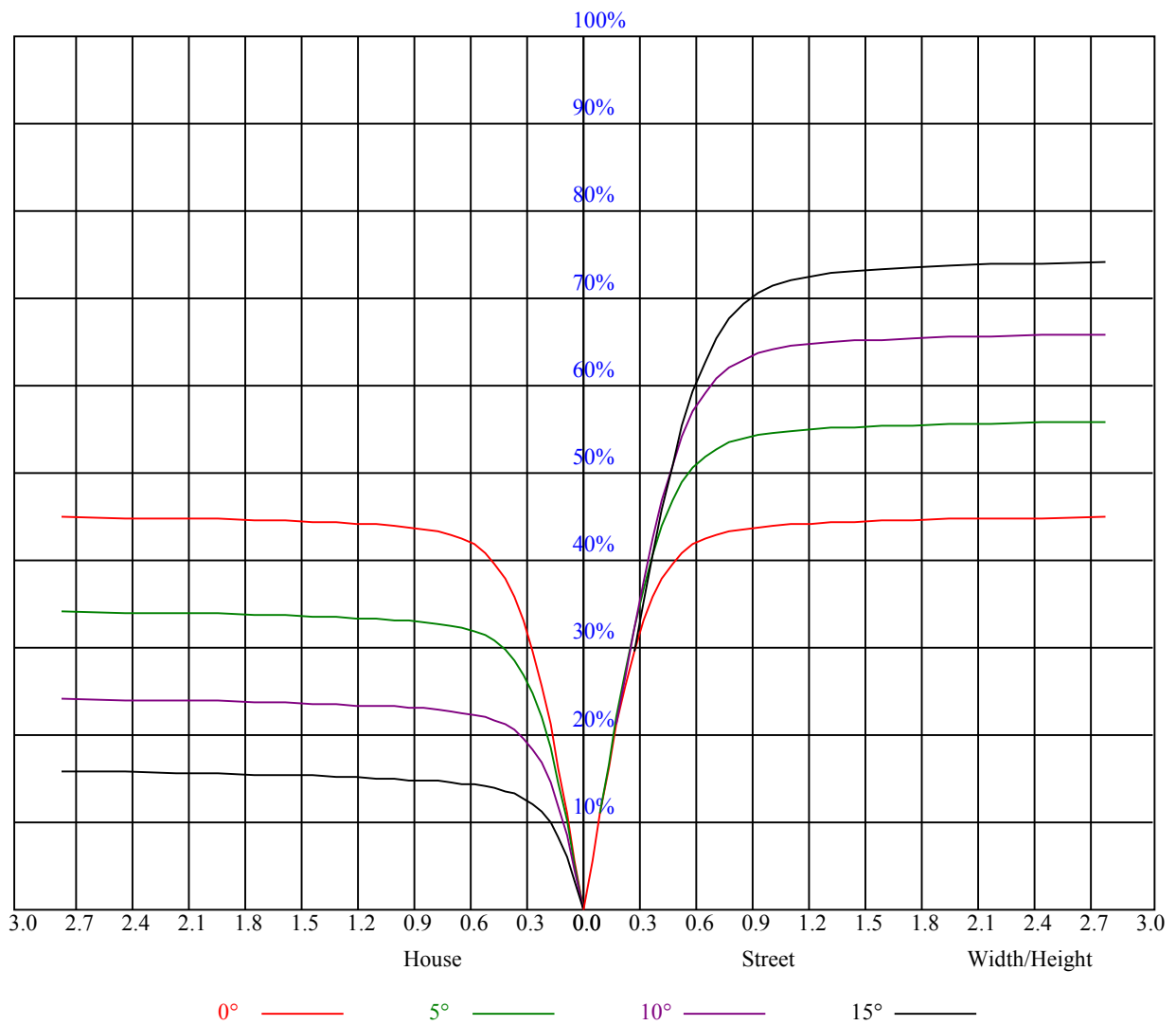
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.97	1.00	0.98	0.96	0.96	0.94	0.93	0.93	0.91	0.90	0.90	0.89	0.88	0.86
2	0.95	0.92	0.89	0.94	0.91	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.86	0.84	0.82	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.72
5	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
7	0.73	0.68	0.65	0.73	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63
8	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.60
9	0.67	0.62	0.59	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.57
10	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.55



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	3622.50	3551.63	3226.50	2598.75	1675.69	921.38	439.88	196.43	101.08
45.0	3630.94	3524.63	3211.31	2529.00	1666.69	918.56	444.38	195.24	101.53
90.0	3619.13	3542.06	3251.81	2630.81	1753.31	927.90	461.25	201.49	99.45
135.0	3615.19	3611.25	3444.19	2891.81	2088.00	1168.88	577.13	285.19	122.29
180.0	3622.50	3574.69	3329.44	2733.19	1857.38	1008.11	507.66	225.34	108.84
225.0	3630.94	3580.31	3315.38	2702.81	1834.31	1027.13	502.93	224.27	108.23
270.0	3619.13	3590.44	3364.31	2736.56	1867.50	1050.19	506.25	303.75	110.19
315.0	3615.19	3516.19	3179.25	2437.88	1591.31	809.78	381.26	176.29	90.11
360.0	3622.50	3551.63	3226.50	2598.75	1675.69	921.38	439.88	196.43	101.08
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	57.71	37.69	26.38	20.03	16.54	14.12	12.83	11.42	9.51
45.0	58.28	38.93	27.06	21.15	17.44	14.68	13.11	11.70	9.68
90.0	55.18	36.62	25.26	19.63	16.93	28.69	43.82	34.20	9.90
135.0	64.58	41.57	27.84	20.93	17.27	18.84	32.12	30.83	11.36
180.0	62.21	40.50	27.51	20.81	17.21	14.57	12.94	11.59	9.84
225.0	62.33	40.73	27.84	21.32	17.33	14.57	12.88	11.70	9.96
270.0	59.74	37.97	26.44	20.08	16.71	27.06	43.59	37.24	11.19
315.0	51.58	34.43	24.24	18.96	15.86	23.23	34.82	22.89	9.62
360.0	57.71	37.69	26.38	20.03	16.54	14.12	12.83	11.42	9.51
C/ γ (°)	90.0								
0.0	8.16								
45.0	8.61								
90.0	8.16								
135.0	8.04								
180.0	8.16								
225.0	8.78								
270.0	8.16								
315.0	8.04								
360.0	8.16								