



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: LN01D05060DA-N

Luminaire: 97.70.234.00

Report No: 210106-B010

Test No: 210106-C010

LampCAT: TRIDONIC SLE G7 9MM

Lamp flux(lm): 1978.0

Number of Lamps: 1

Length(mm): 92

Phm Type: C

Voltage(V): 36.2900

Current(A): 0.3810

Power (W): 13.8260

PF: 0.0000

Ballast type: DC

Width(mm): 92

Height(mm): 50

Photometric Results

Lumens(lm): 1744.07

Efficiency(%): 88.17%

Lumens(lm)/Power(W): 126.14

Central intensity(cd): 1795.078

Maximum intensity(cd): 1795.078

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=57.9

[C90/270]Total=57.9

Field angle(10%Imax): [C0/180]Total=90.4

[C90/270]Total=90.4

Maximum s/h(1/2): C0_180=0.88 C90_270=0.88

Maximum s/h(1/4): C0_180=0.89 C90_270=0.89

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 88.17%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.065%

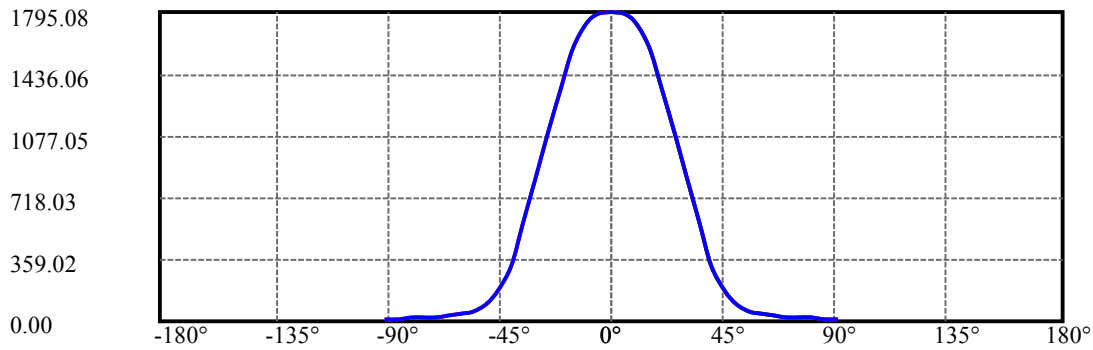
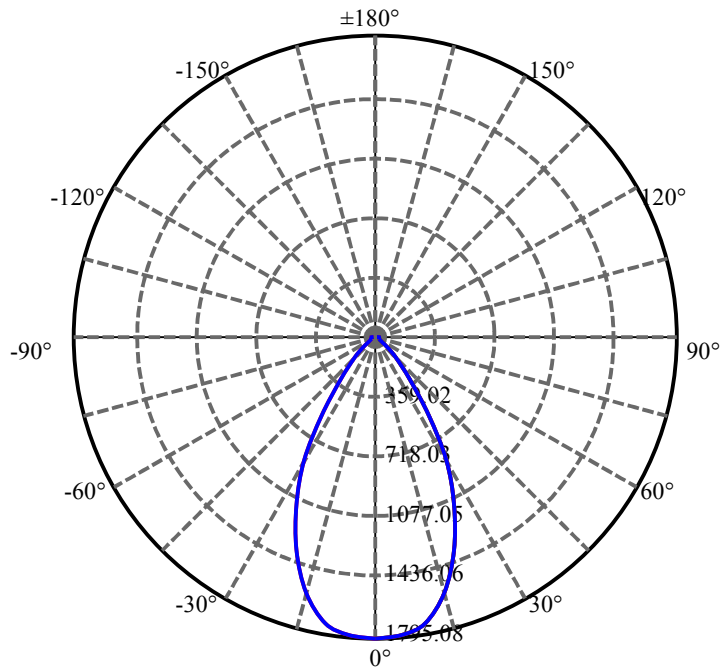
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1795.078	0.000	0	.000%	.000%
5.0	1784.672	42.795	42.795	2.164%	2.454%
10.0	1724.836	125.546	168.341	6.347%	9.652%
15.0	1578.094	195.928	364.269	9.905%	20.886%
20.0	1355.695	241.785	606.054	12.224%	34.749%
25.0	1095.877	257.125	863.179	12.999%	49.492%
30.0	846.021	245.749	1108.927	12.424%	63.583%
35.0	566.128	207.949	1316.876	10.513%	75.506%
40.0	328.598	149.278	1466.155	7.547%	84.065%
45.0	183.227	94.769	1560.923	4.791%	89.499%
50.0	100.505	57.332	1618.256	2.898%	92.786%
55.0	58.542	34.582	1652.838	1.748%	94.769%
60.0	39.213	22.596	1675.434	1.142%	96.065%
65.0	27.907	16.317	1691.751	.825%	97.000%
70.0	24.117	13.173	1704.924	.666%	97.755%
75.0	23.899	12.551	1717.474	.635%	98.475%
80.0	22.317	12.366	1729.84	.625%	99.184%
85.0	11.215	9.111	1738.952	.461%	99.706%
90.0	7.481	5.119	1744.071	.259%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1108.93	56.06%	63.58%
0-40	1466.15	74.12%	84.07%
0-60	1675.43	84.70%	96.06%
0-90	1738.95	87.91%	99.71%
0-120	1738.95	87.91%	99.71%
0-180	1744.07	88.17%	100.00%
60-90	86.11	4.35%	4.94%
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%
0-37.63	1395.26	70.54%	80.00%

ZONAL LUMEN SUMMARY

0-10	168.34
10-20	437.71
20-30	502.87
30-40	357.23
40-50	152.10
50-60	57.18
60-70	29.49
70-80	24.92
80-90	9.11
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: —————

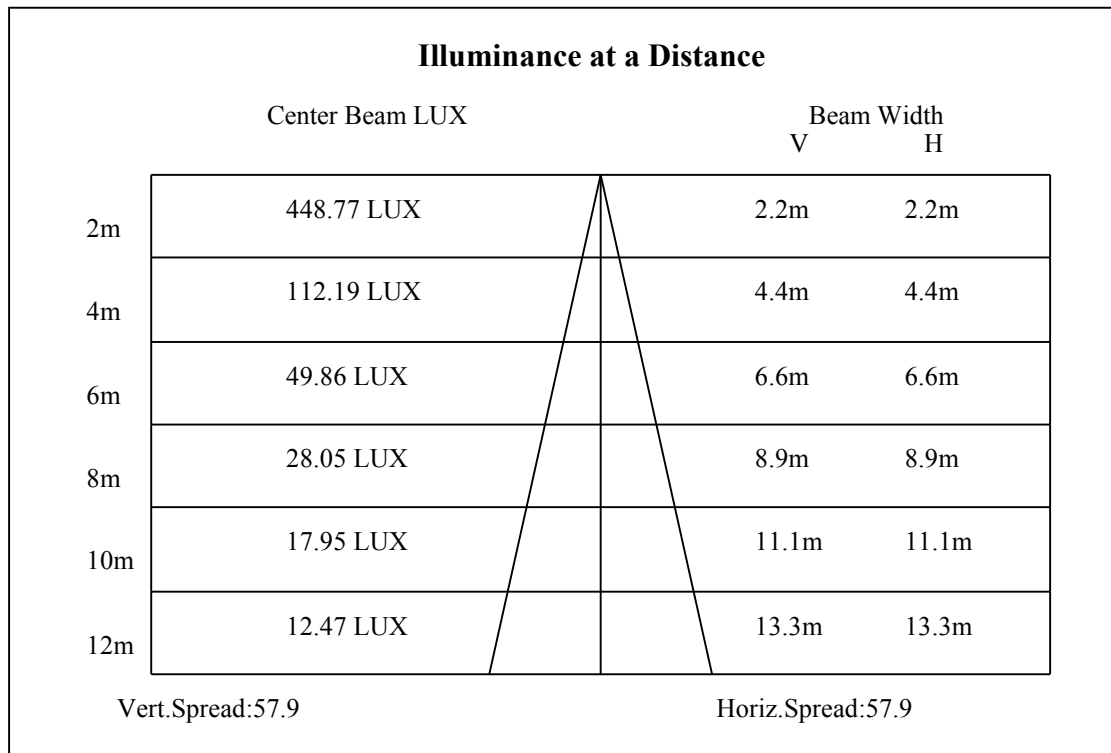
C90/C270: —————

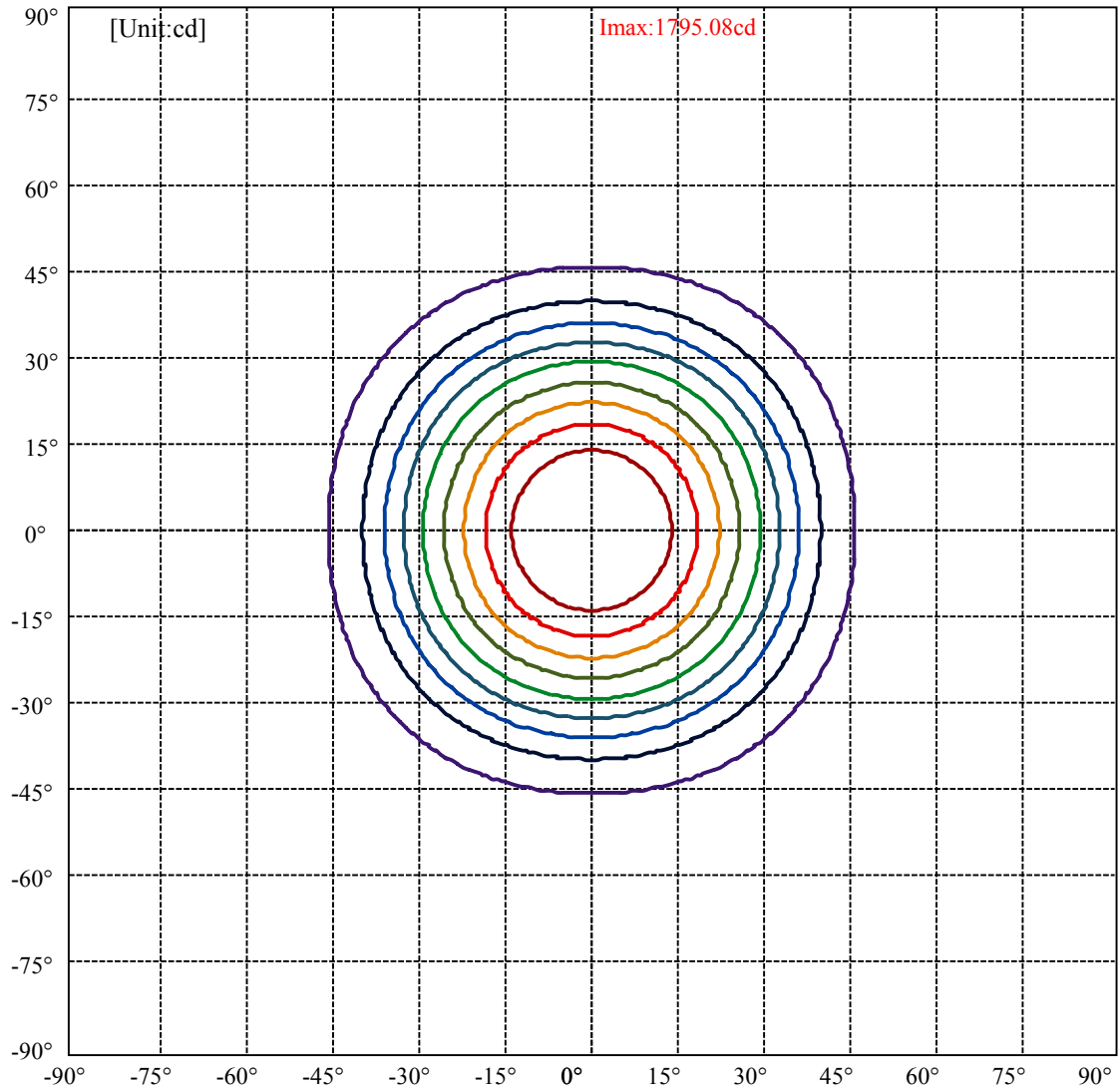
Field angle(10%Imax):C0/180Left:45.2 Right:45.2

:C90/270Left:45.2 Right:45.2

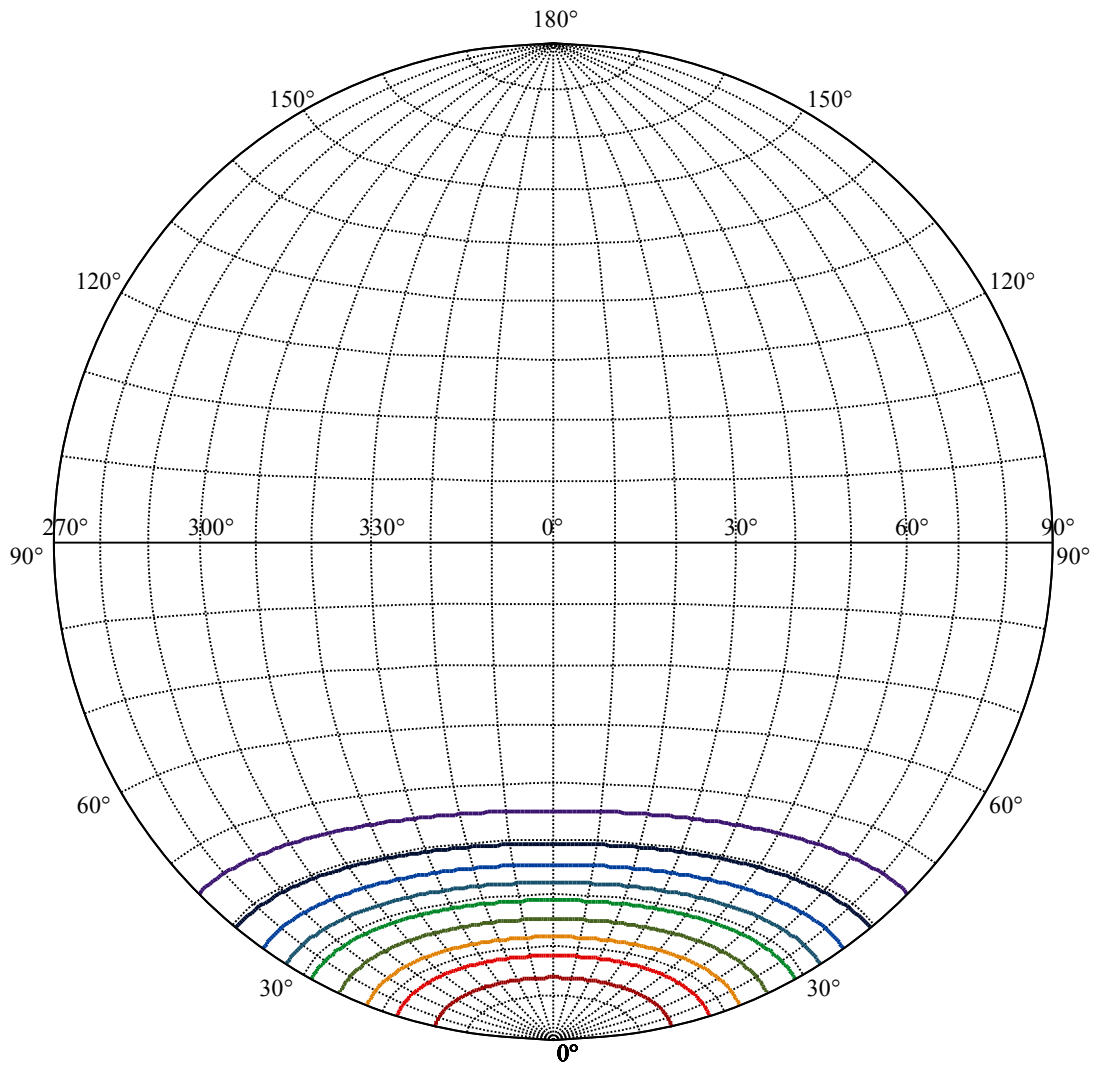
Beam Angle(50%Imax):C0/180Left:29.0 Right:29.0

:C90/270Left:29.0 Right:29.0





(10%Imax) 179.508	—
(20%Imax) 359.016	—
(30%Imax) 538.523	—
(40%Imax) 718.031	—
(50%Imax) 897.539	—
(60%Imax) 1077.05	—
(70%Imax) 1256.55	—
(80%Imax) 1436.06	—
(90%Imax) 1615.57	—



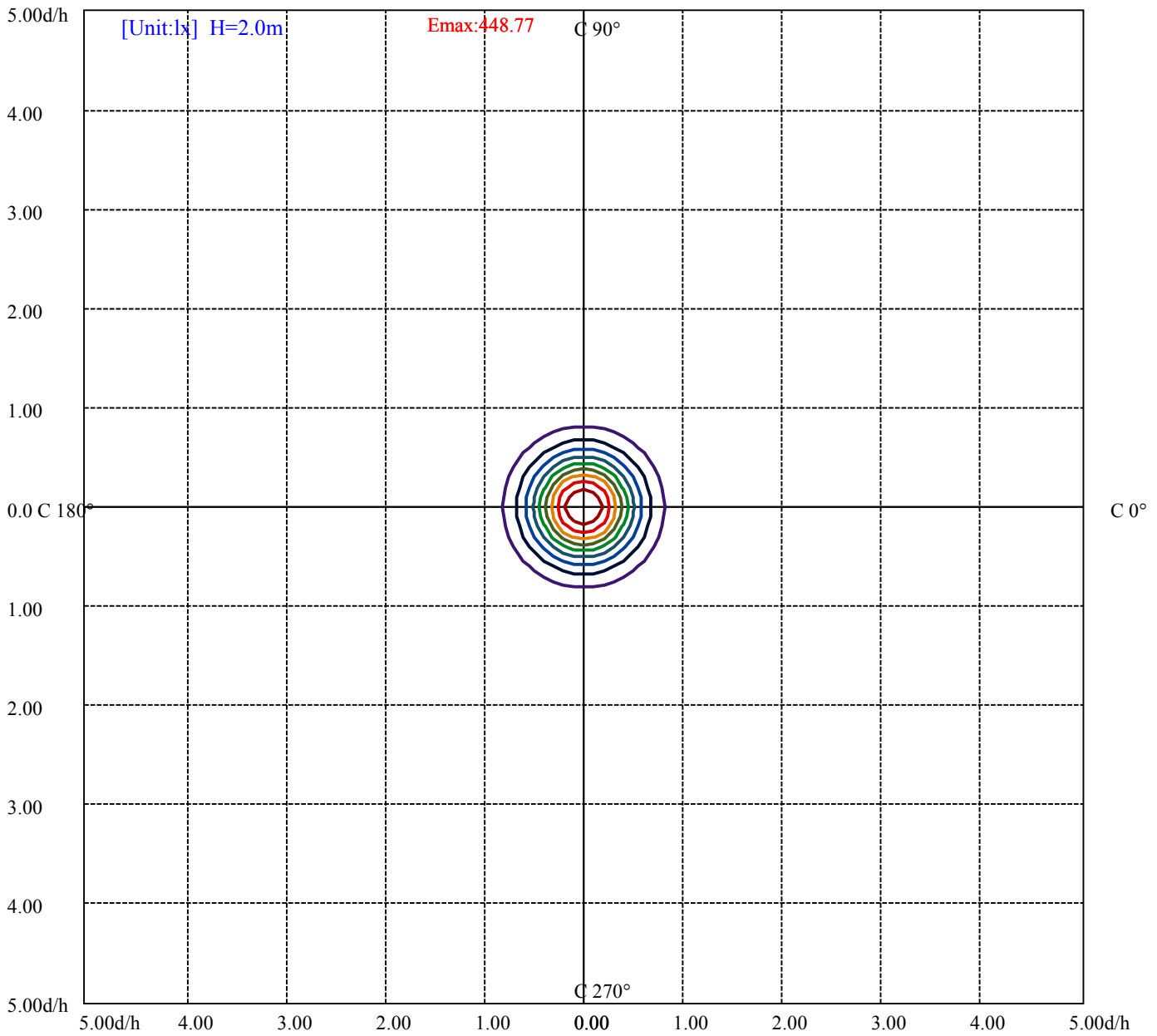
House

[Unit:cd]

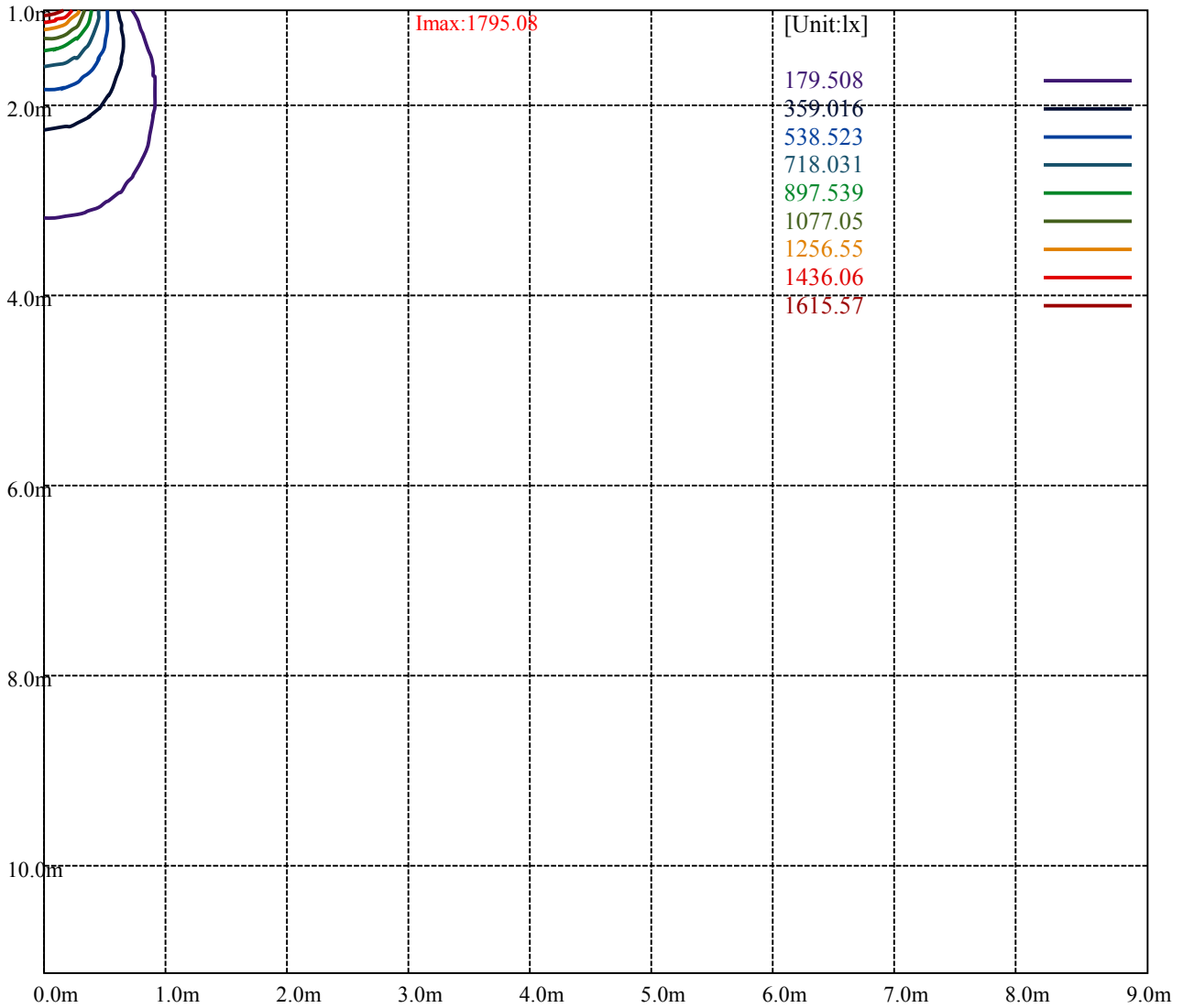
Road

Imax:1795.08

(10%Imax)	179.508	—
(20%Imax)	359.016	—
(30%Imax)	538.523	—
(40%Imax)	718.031	—
(50%Imax)	897.539	—
(60%Imax)	1077.05	—
(70%Imax)	1256.55	—
(80%Imax)	1436.06	—
(90%Imax)	1615.57	—



- (10%Emax) 44.877
- (20%Emax) 89.754
- (30%Emax) 134.6308
- (40%Emax) 179.5078
- (50%Emax) 224.3848
- (60%Emax) 269.2625
- (70%Emax) 314.1375
- (80%Emax) 359.015
- (90%Emax) 403.8925



Luminance Table

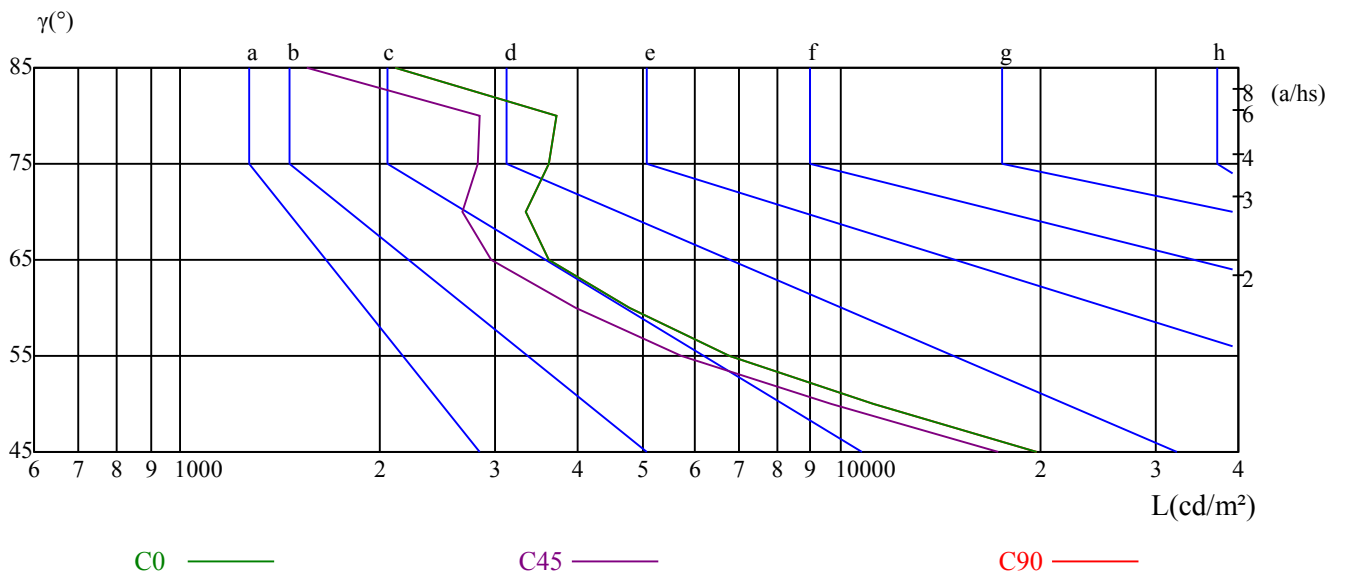
γ	45	50	55	60	65	70	75	80	85
C0	19835	11212	6789	4773	3603	3342	3603	3720	2108
C45	17310	9642	5749	3975	2946	2677	2820	2833	1554
C90	19835	11212	6789	4773	3603	3342	3603	3720	2108

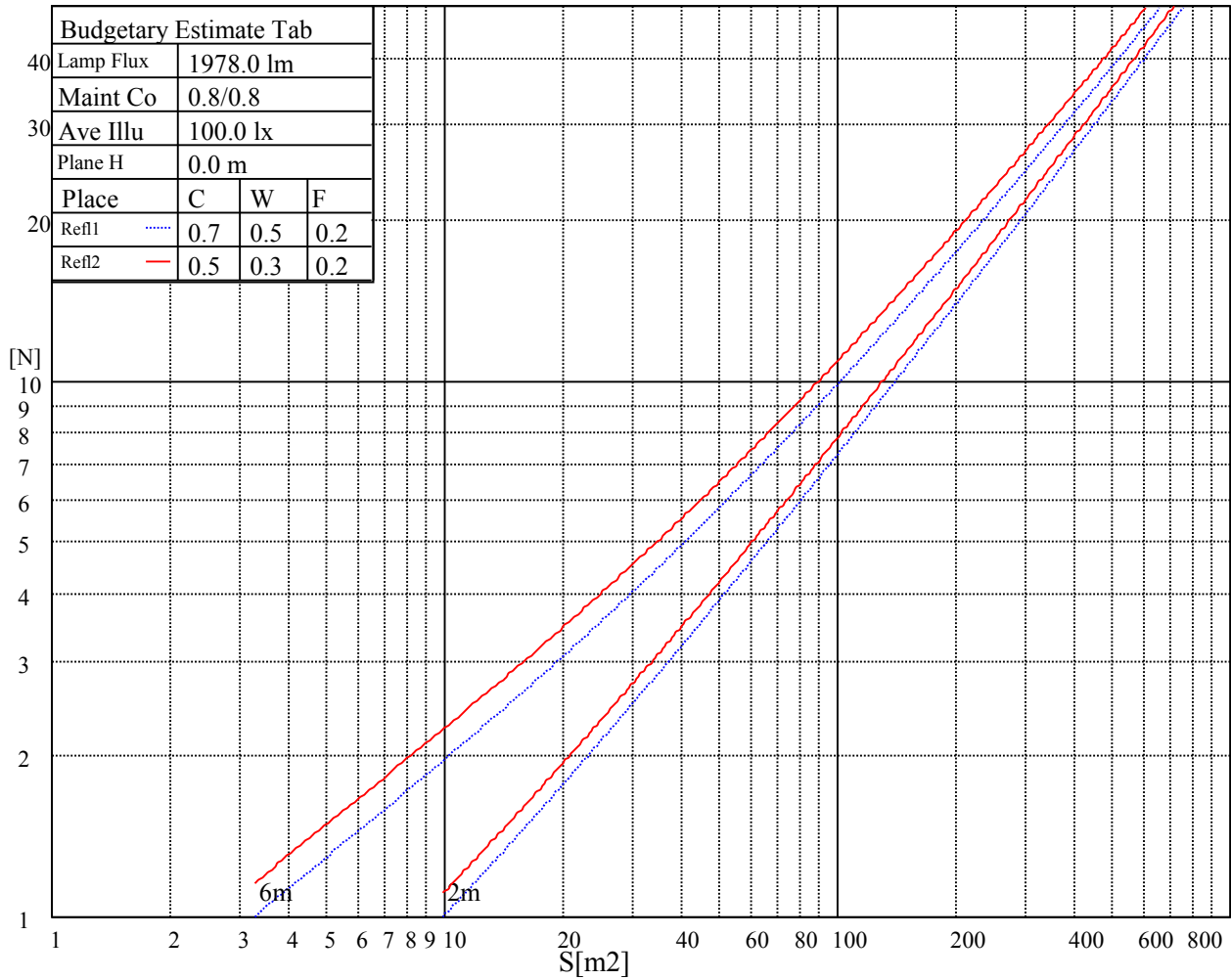
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7802	7802	7802	10910	10910	10910	15203	15203	15203

Glare Table

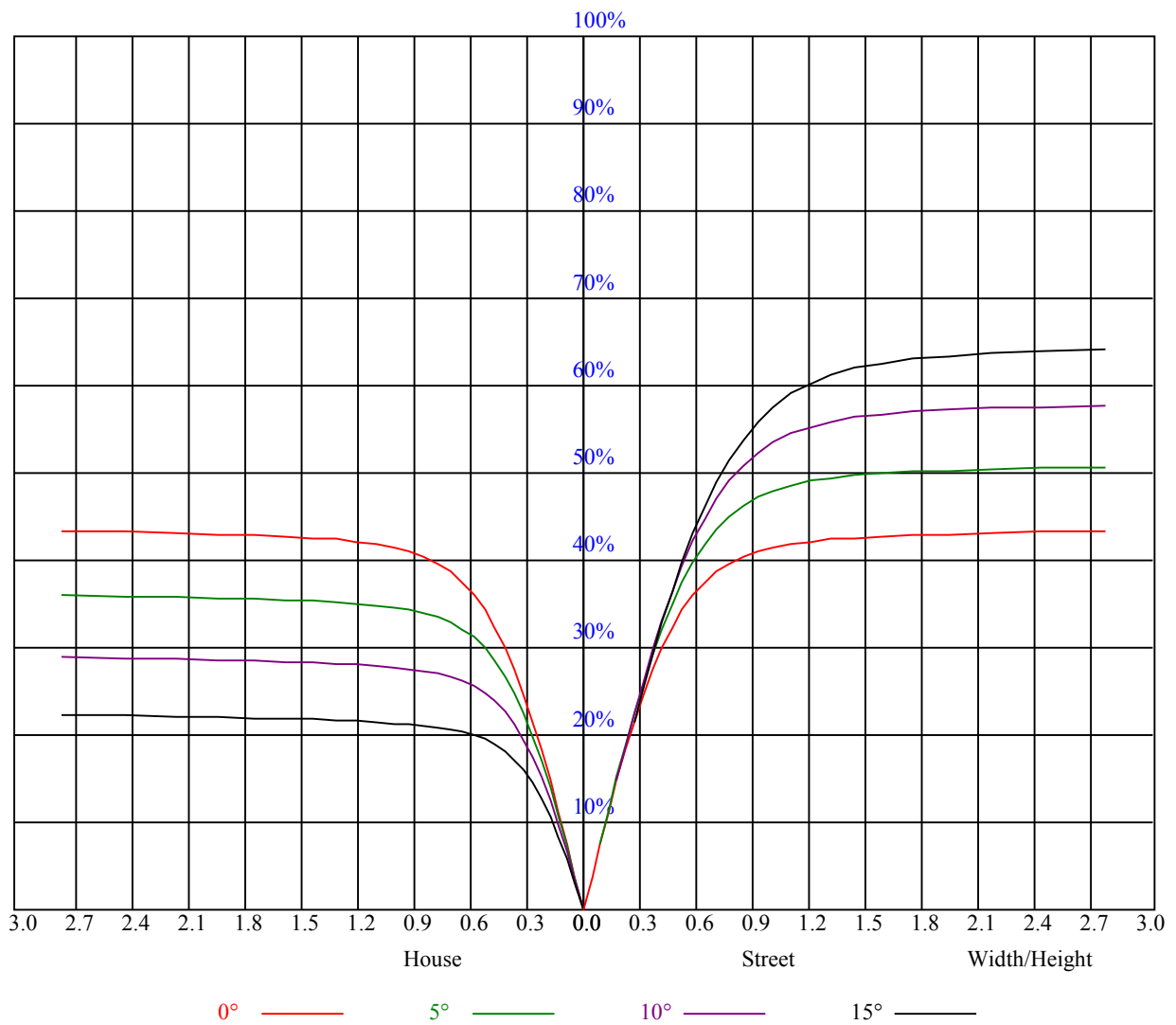
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.05	1.05	1.05	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.88
1	0.96	0.94	0.92	0.95	0.92	0.90	0.91	0.89	0.87	0.88	0.86	0.85	0.85	0.83	0.82	0.81
2	0.89	0.85	0.82	0.87	0.84	0.81	0.84	0.81	0.79	0.82	0.79	0.77	0.79	0.77	0.75	0.74
3	0.82	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.76	0.73	0.71	0.74	0.72	0.69	0.68
4	0.76	0.71	0.67	0.75	0.70	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.64	0.63
5	0.71	0.65	0.61	0.70	0.65	0.61	0.69	0.64	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.58
6	0.66	0.61	0.57	0.66	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.54
7	0.62	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.51	0.50
8	0.58	0.53	0.49	0.58	0.52	0.49	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.47
9	0.55	0.49	0.46	0.54	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.44
10	0.52	0.46	0.43	0.51	0.46	0.43	0.51	0.46	0.43	0.50	0.46	0.42	0.49	0.45	0.42	0.41



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	1798.88	1779.75	1738.69	1624.50	1438.31	1177.88	933.75	698.63	422.44
45.0	1794.94	1780.88	1728.00	1587.38	1375.31	1146.38	884.81	604.13	349.88
90.0	1794.94	1785.94	1715.06	1548.00	1308.38	1049.29	784.52	491.01	281.53
135.0	1791.56	1802.25	1748.81	1613.25	1378.13	1090.13	836.44	504.56	287.44
180.0	1798.88	1802.81	1740.38	1562.63	1310.06	1013.63	733.22	454.39	249.75
225.0	1794.94	1788.19	1718.44	1553.06	1324.69	1057.78	815.23	521.94	280.41
270.0	1794.94	1774.13	1713.38	1576.13	1368.00	1117.69	893.25	631.69	377.44
315.0	1791.56	1763.44	1695.94	1559.81	1342.69	1114.26	886.95	622.69	379.91
360.0	1798.88	1779.75	1738.69	1624.50	1438.31	1177.88	933.75	698.63	422.44
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	285.19	130.50	70.82	44.83	30.94	23.85	18.51	14.91	11.08
45.0	188.16	105.98	61.31	41.29	29.08	22.44	17.61	13.67	10.46
90.0	150.24	86.91	50.91	36.23	26.04	20.14	15.58	12.04	9.17
135.0	144.84	86.29	52.09	35.61	26.33	32.79	46.86	48.54	9.06
180.0	133.14	79.48	48.49	33.64	24.75	19.58	15.02	11.59	8.33
225.0	159.69	90.28	54.00	37.18	26.89	20.93	16.14	12.77	9.90
270.0	204.47	114.24	65.70	43.03	29.87	22.73	17.78	13.78	10.41
315.0	200.08	110.36	65.03	41.91	29.36	30.49	43.71	51.24	21.32
360.0	285.19	130.50	70.82	44.83	30.94	23.85	18.51	14.91	11.08
C/γ(°)	90.0								
0.0	7.71								
45.0	7.43								
90.0	7.43								
135.0	7.26								
180.0	7.14								
225.0	7.43								
270.0	7.65								
315.0	7.82								
360.0	7.71								