



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: 3-1917-E	
Luminaire: 92.76.323.00	
Report No: NATA0100	Voltage(V): 35.2000
Test No: GC2018111204	Current(A): 0.7000
LampCAT: Philips SLM 1208 G7	Power (W): 24.6400
Lamp flux(lm): 3443.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 84	Width(mm): 84
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3087.52
Efficiency(%): 89.68%
Lumens(lm)/Power(W): 127.83
Central intensity(cd): 10892.950
Maximum intensity(cd): 10892.950
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=25.5
 [C90/270]Total=25.5
Field angle(10%Imax): [C0/180]Total=60.6
 [C90/270]Total=60.6
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.44 C90_270=0.44
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.48%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.778%

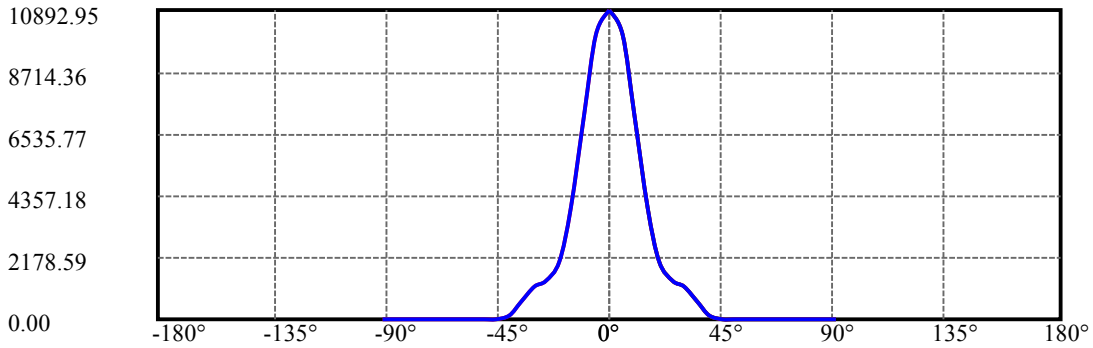
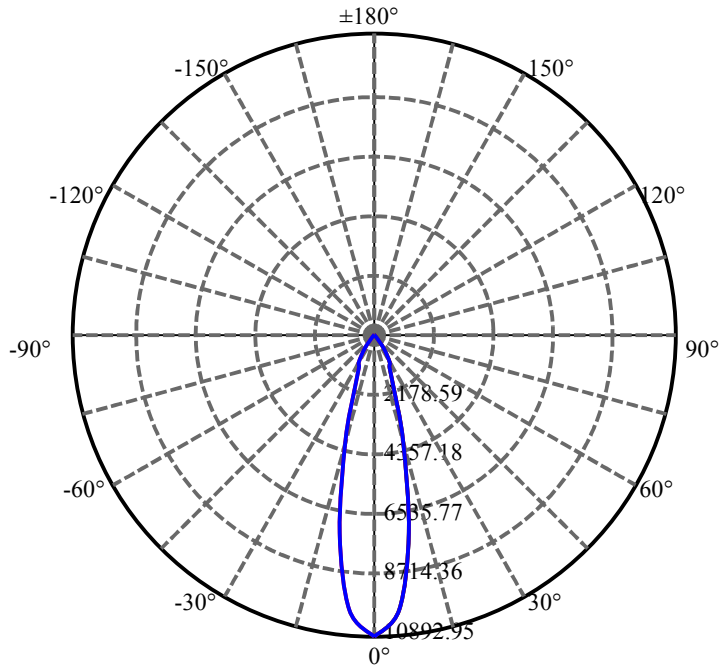
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10892.953	65.142	65.142	1.892%	2.110%
5.0	9991.195	477.313	542.455	13.863%	17.569%
10.0	7268.273	691.816	1234.271	20.093%	39.976%
15.0	3951.070	560.532	1794.803	16.280%	58.131%
20.0	2023.594	379.371	2174.174	11.019%	70.418%
25.0	1337.555	309.848	2484.023	8.999%	80.454%
30.0	1122.019	307.510	2791.533	8.931%	90.413%
35.0	597.600	187.885	2979.418	5.457%	96.499%
40.0	118.280	41.674	3021.092	1.210%	97.848%
45.0	19.146	7.421	3028.513	.216%	98.089%
50.0	15.581	6.543	3035.055	.190%	98.301%
55.0	14.576	6.545	3041.6	.190%	98.513%
60.0	13.985	6.639	3048.239	.193%	98.728%
65.0	13.613	6.762	3055.001	.196%	98.947%
70.0	13.697	7.055	3062.056	.205%	99.175%
75.0	13.620	7.211	3069.267	.209%	99.409%
80.0	13.823	7.462	3076.729	.217%	99.650%
85.0	13.331	7.280	3084.009	.211%	99.886%
90.0	12.818	3.513	3087.522	.102%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2791.53	81.08%	90.41%
0-40	3021.09	87.75%	97.85%
0-60	3048.24	88.53%	98.73%
0-90	3084.01	89.57%	99.89%
0-120	3084.01	89.57%	99.89%
0-180	3087.52	89.68%	100.00%
60-90	42.41	1.23%	1.37%
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%
0-24.77	2470.02	71.74%	80.00%

ZONAL LUMEN SUMMARY

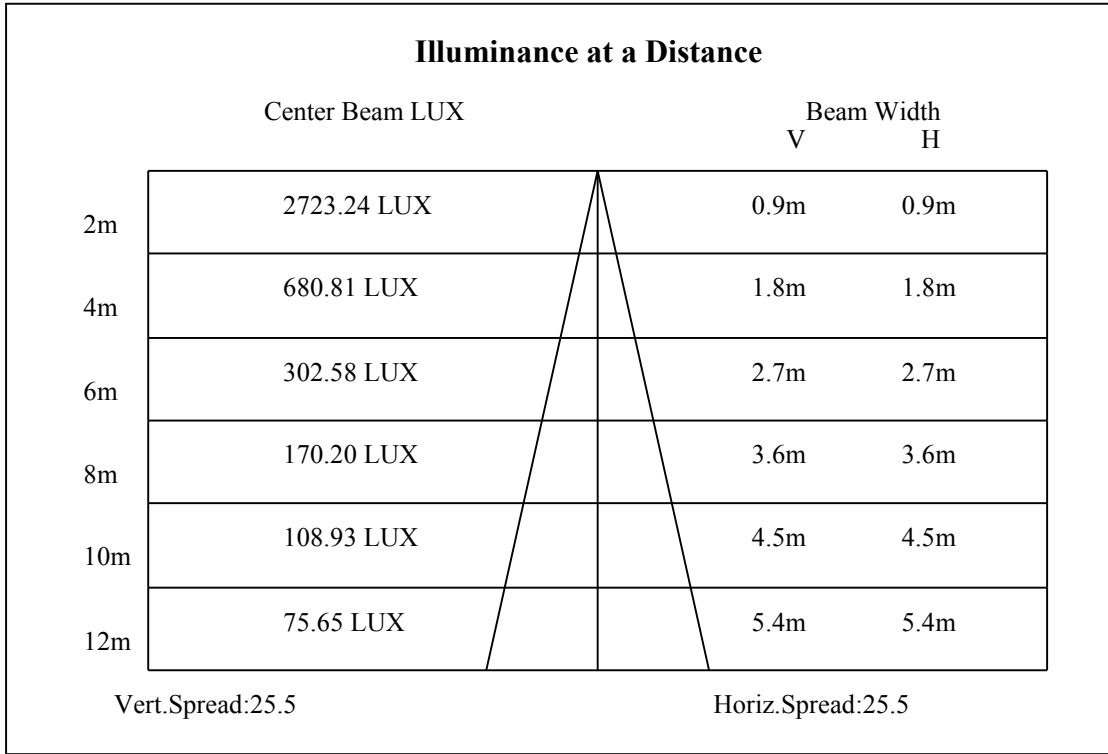
0-10	1234.27
10-20	939.90
20-30	617.36
30-40	229.56
40-50	13.96
50-60	13.18
60-70	13.82
70-80	14.67
80-90	7.28
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

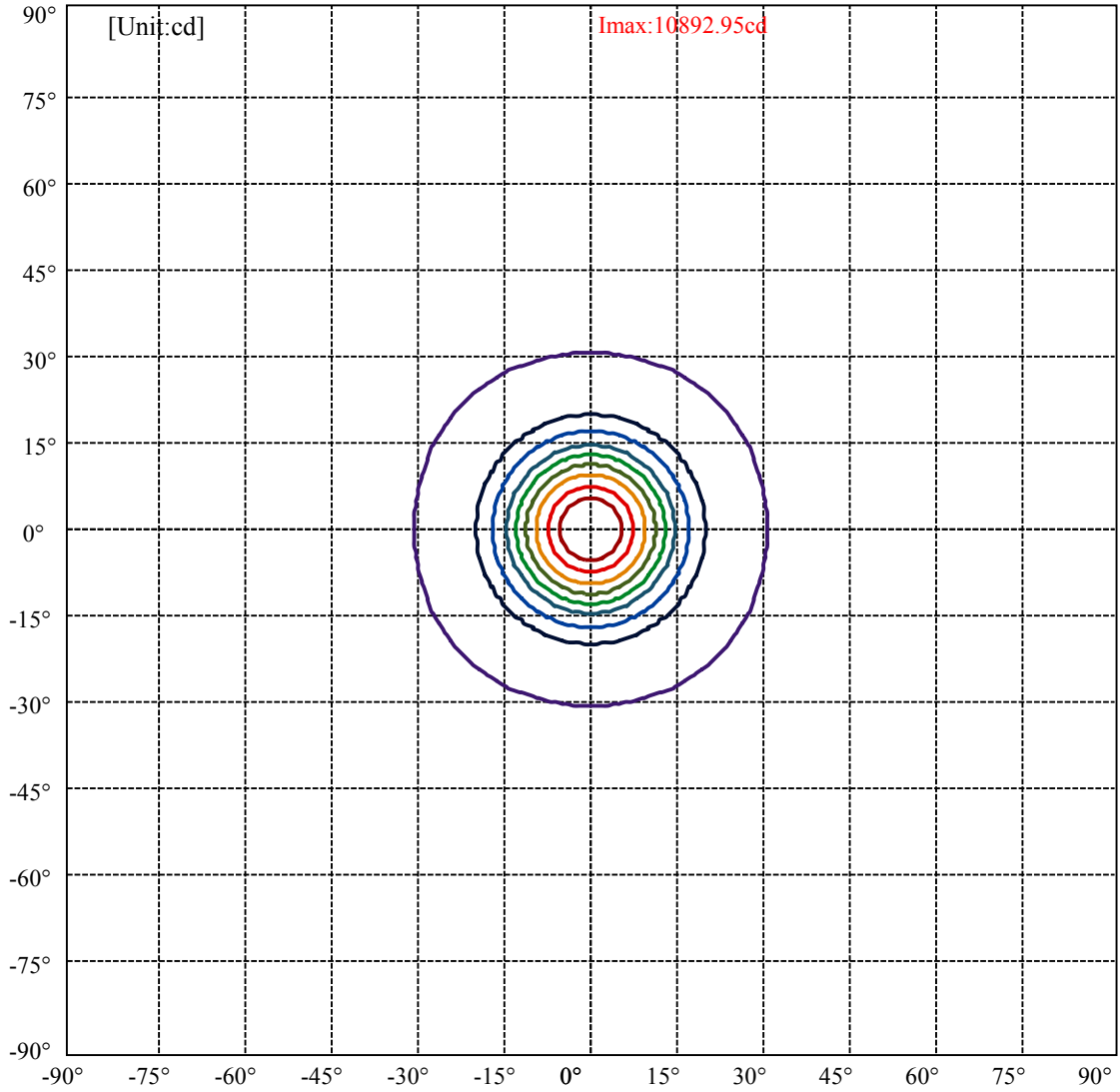


C0(Max): ———
C0/C180: ———
C90/C270: ———

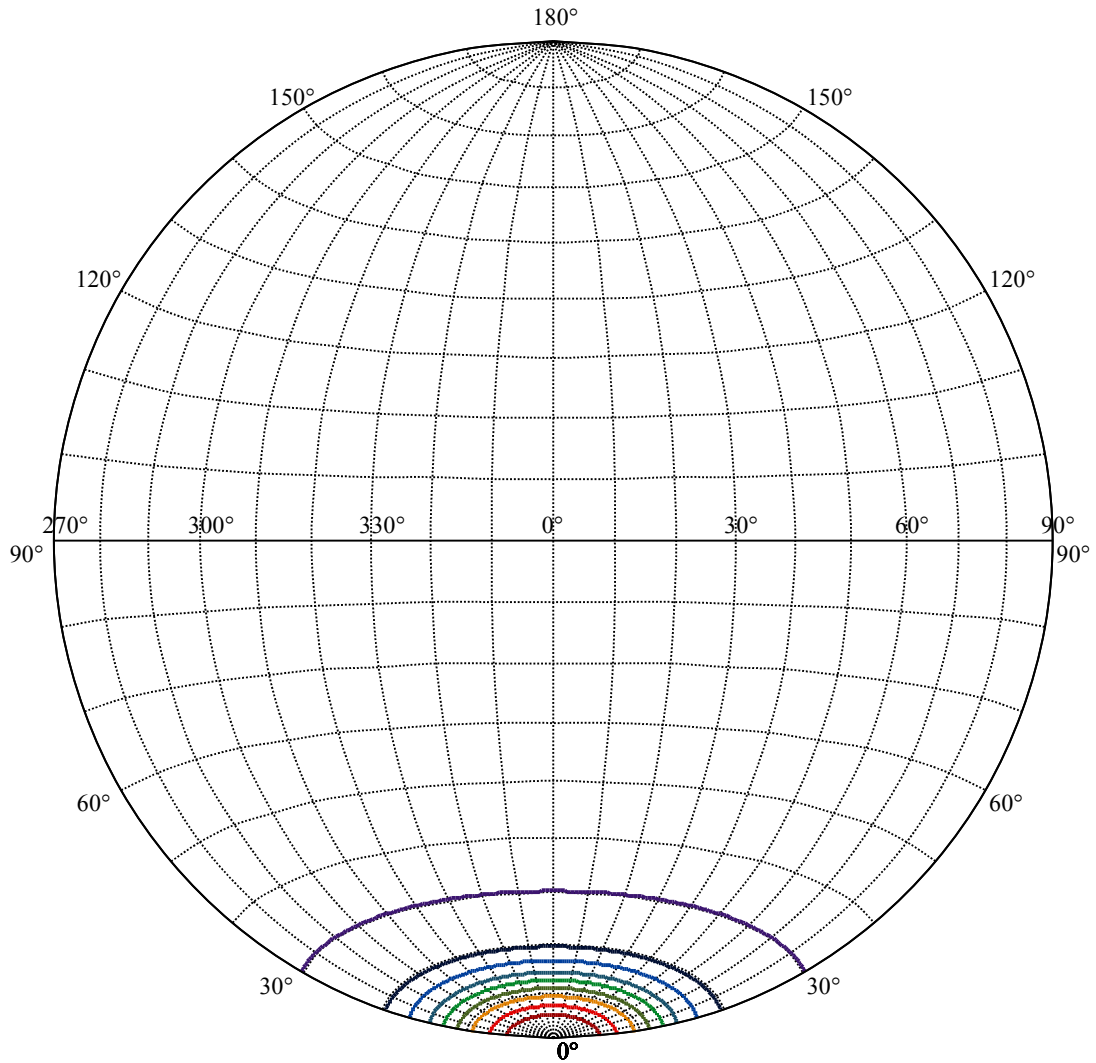
Field angle(10%Imax):C0/180Left:30.3 Right:30.3
:C90/270Left:30.3 Right:30.3

Beam Angle(50%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7





(10%Imax) 1089.3	—
(20%Imax) 2178.59	—
(30%Imax) 3267.89	—
(40%Imax) 4357.18	—
(50%Imax) 5446.48	—
(60%Imax) 6535.77	—
(70%Imax) 7625.07	—
(80%Imax) 8714.36	—
(90%Imax) 9803.66	—



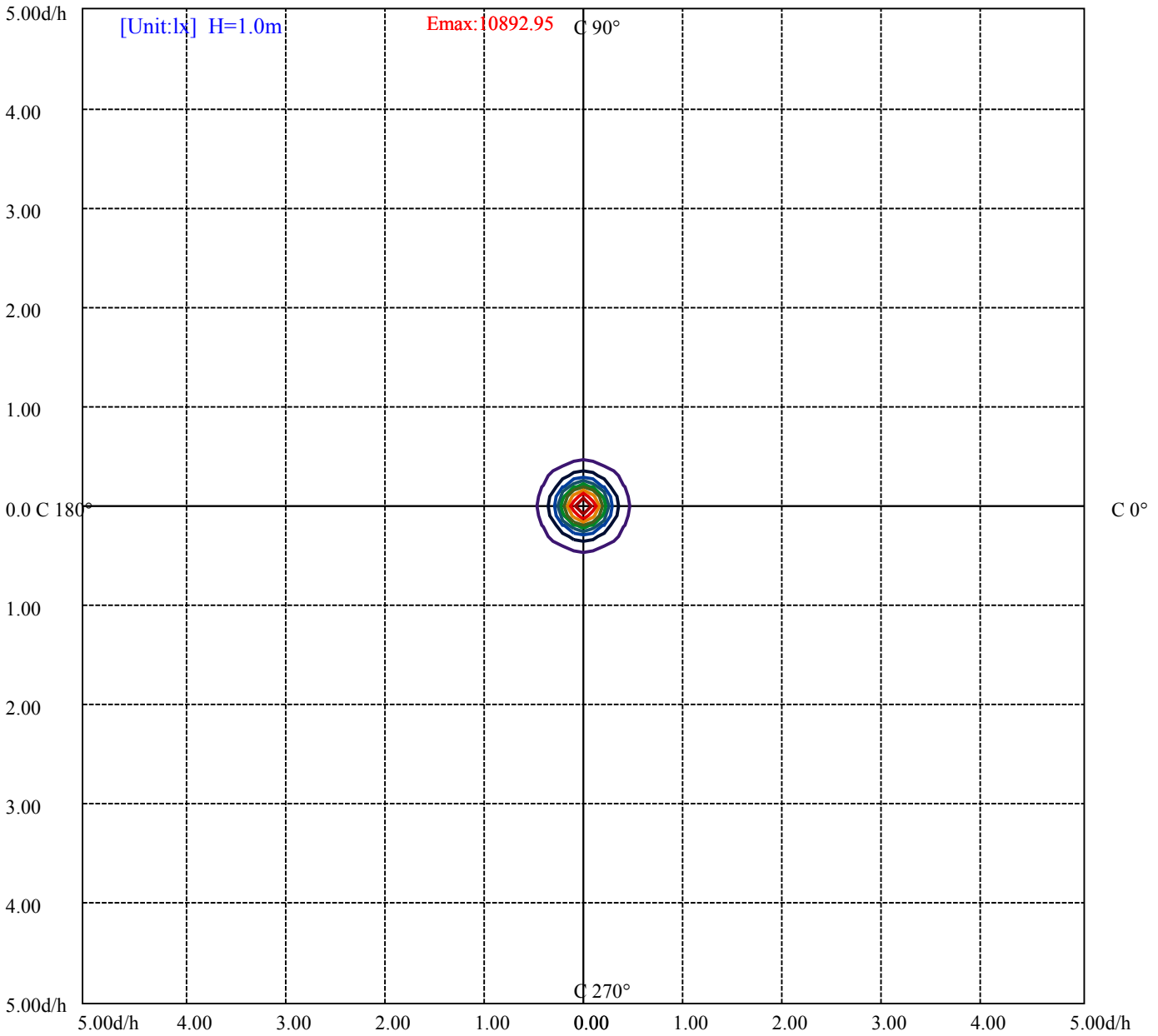
House

[Unit:cd]

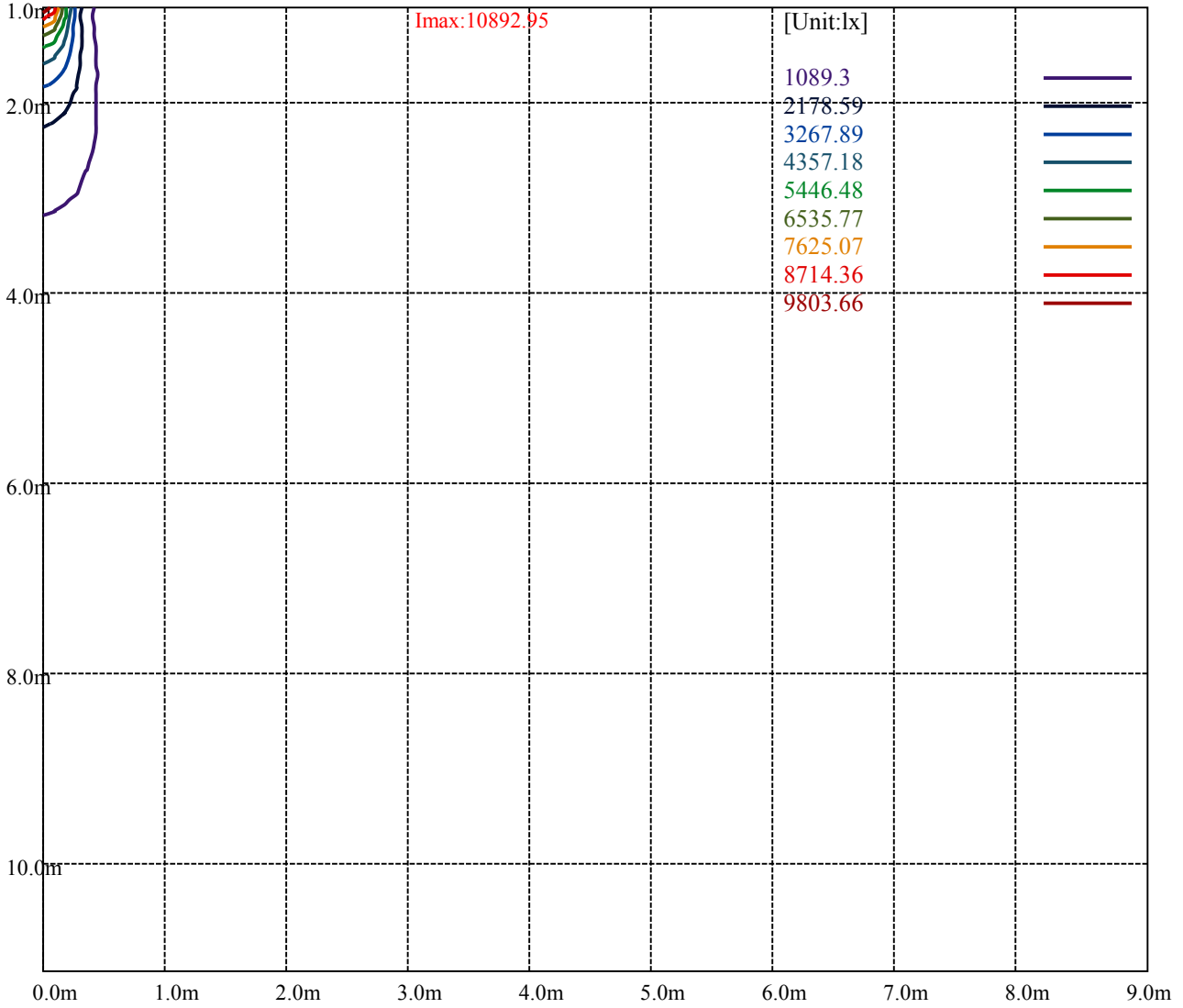
Road

Imax:10892.95

(10%Imax) 1089.3	—
(20%Imax) 2178.59	—
(30%Imax) 3267.89	—
(40%Imax) 4357.18	—
(50%Imax) 5446.48	—
(60%Imax) 6535.77	—
(70%Imax) 7625.07	—
(80%Imax) 8714.36	—
(90%Imax) 9803.66	—



(10%Emax) 1089.29	—
(20%Emax) 2178.59	—
(30%Emax) 3267.88	—
(40%Emax) 4357.17	—
(50%Emax) 5446.46	—
(60%Emax) 6535.76	—
(70%Emax) 7625.05	—
(80%Emax) 8714.34	—
(90%Emax) 9803.63	—



Luminance Table

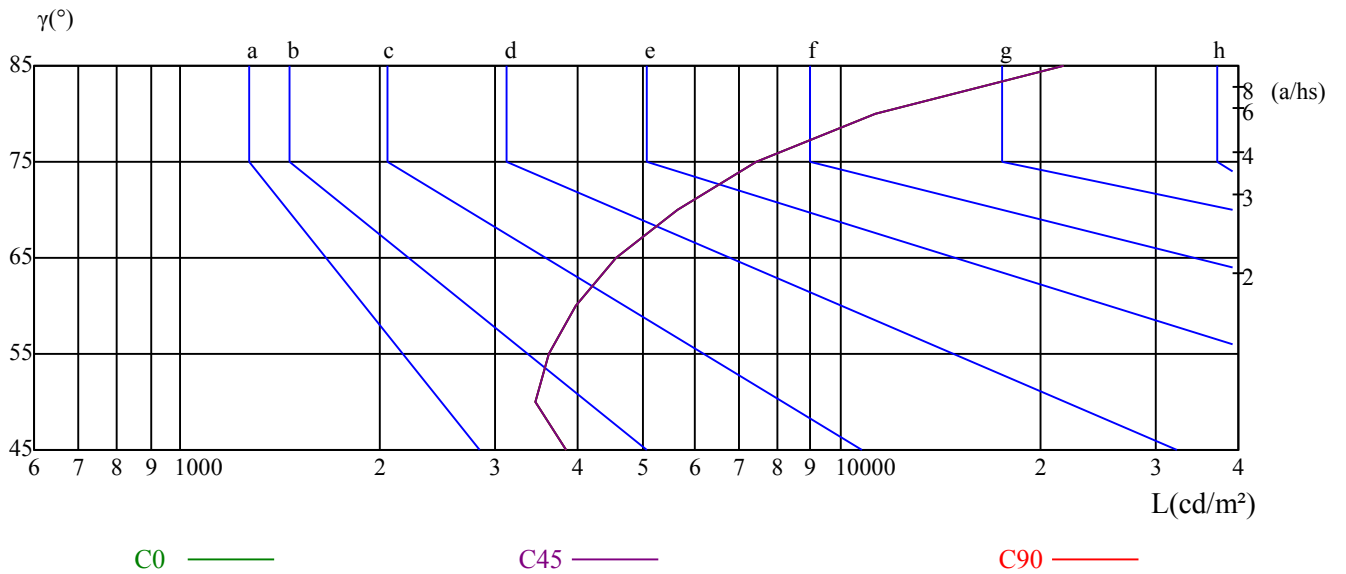
γ	45	50	55	60	65	70	75	80	85
C0	3837	3435	3601	3964	4565	5676	7458	11282	21678
C45	3837	3435	3601	3964	4565	5676	7458	11282	21678
C90	3837	3435	3601	3964	4565	5676	7458	11282	21678

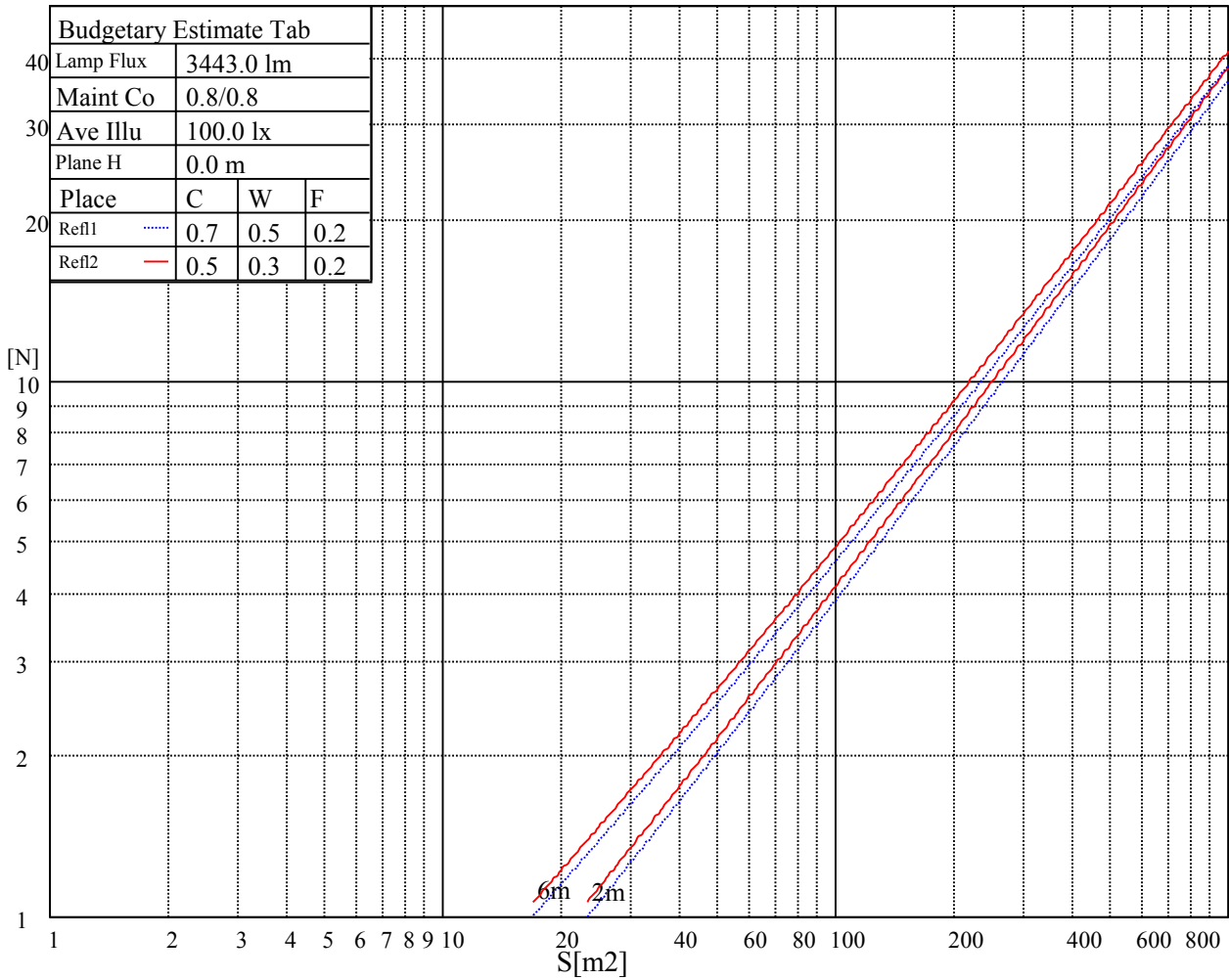
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4565	4565	4565	7458	7458	7458	21678	21678	21678

Glare Table

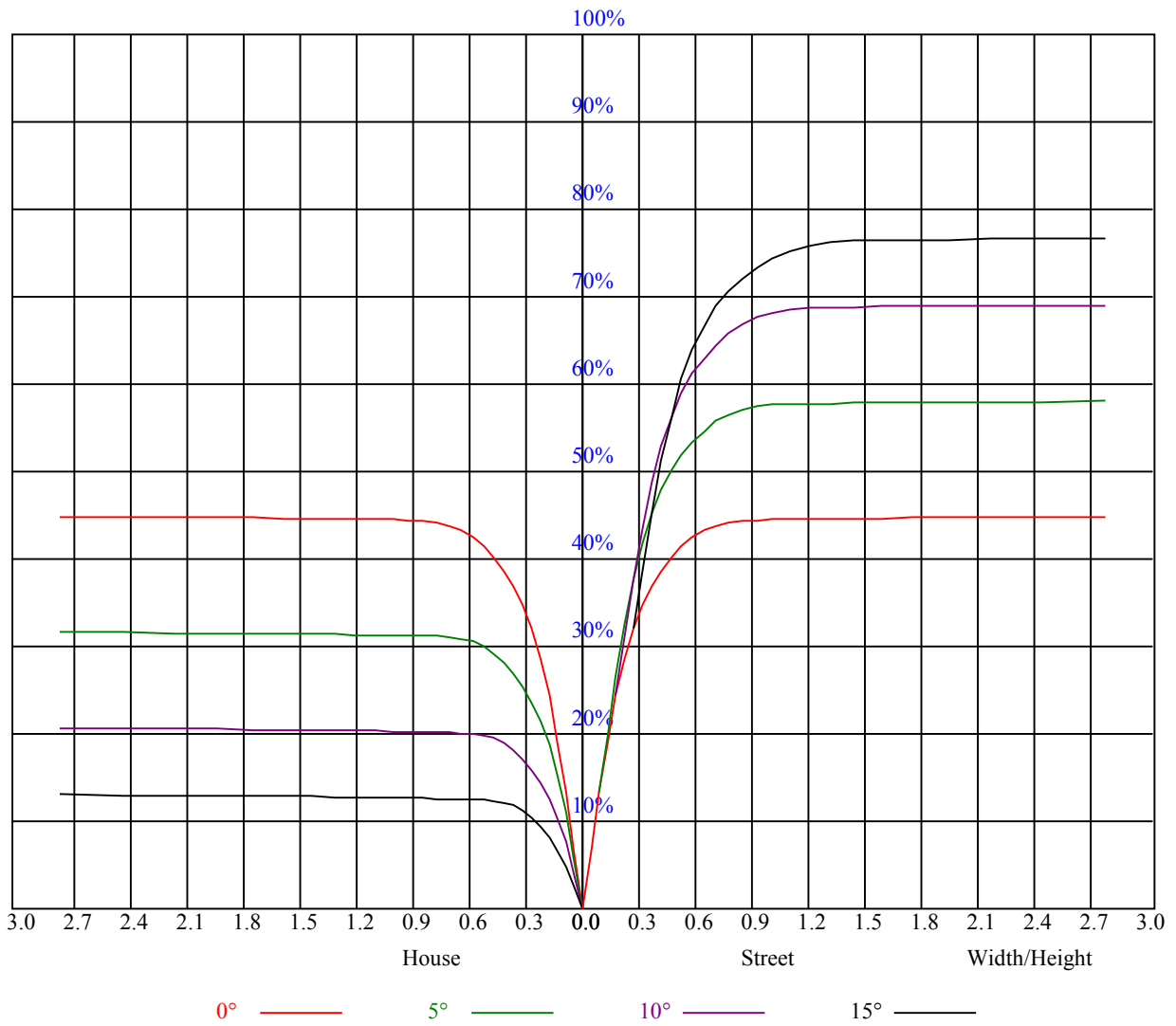
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.00	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.91	0.91	0.90	0.88	0.88	0.87	0.86	0.84
2	0.95	0.92	0.89	0.94	0.90	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.91	0.87	0.84	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.80	0.83	0.81	0.79	0.78
4	0.87	0.83	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.75
5	0.83	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.74	0.73
6	0.80	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
7	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
9	0.73	0.69	0.66	0.72	0.68	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
10	0.71	0.67	0.64	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62



NATA 3-1917-E

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	10884.94	10374.75	7765.88	4419.00	2194.31	1389.38	1175.63	737.44	313.31
45.0	10908.00	9790.88	6798.94	3418.88	1797.75	1284.75	1097.44	497.25	44.55
90.0	10863.00	9399.94	6505.88	3256.88	1697.06	1261.13	1065.38	406.18	40.39
135.0	10915.88	9979.31	7468.31	4009.50	2031.75	1324.13	1121.63	581.06	58.11
180.0	10884.94	9668.81	6746.63	3486.94	1879.88	1282.50	1092.26	483.30	45.62
225.0	10908.00	10299.38	7748.44	4294.69	2266.31	1386.56	1114.20	705.54	100.80
270.0	10863.00	10407.94	8039.25	4891.50	2365.31	1421.44	1196.44	777.38	287.44
315.0	10915.88	10008.56	7072.88	3831.19	1956.38	1350.56	1113.19	592.65	56.03
360.0	10884.94	10374.75	7765.88	4419.00	2194.31	1389.38	1175.63	737.44	313.31

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	19.18	15.53	14.51	13.89	13.56	13.33	13.28	13.16	13.11
45.0	16.65	15.24	14.34	13.89	13.56	13.28	13.11	13.05	12.99
90.0	16.76	15.36	14.40	13.89	13.50	13.22	13.16	13.28	13.16
135.0	21.49	15.81	14.79	14.06	13.56	13.28	13.11	12.94	12.88
180.0	16.93	15.24	14.29	13.73	13.39	13.16	12.99	12.88	12.88
225.0	20.42	15.58	14.63	13.95	13.61	13.33	13.22	13.11	13.05
270.0	23.57	16.09	14.91	14.29	13.84	14.74	13.44	13.33	13.28
315.0	18.17	15.81	14.74	14.18	13.89	15.24	16.65	18.84	15.30
360.0	19.18	15.53	14.51	13.89	13.56	13.33	13.28	13.16	13.11

C/γ(°)	90.0
0.0	12.77
45.0	12.88
90.0	12.83
135.0	12.83
180.0	12.71
225.0	12.83
270.0	12.88
315.0	12.83
360.0	12.77