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## Nata

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LumCAT: 1-1010-M  
Luminaire: BJB 47.360.1020  
Report No: NATA0100  
Test No: GC2019101916  
LampCAT: TRIDONIC SLE G7 9MM  
Lamp flux(lm): 1539.0  
Number of Lamps: 1  
Length(mm): 0  
Phm Type: C

Voltage(V): 35.1300  
Current(A): 0.2970  
Power (W): 10.4300  
PF: 0.0000  
Ballast type: DC  
Width(mm): 0  
Height(mm): 0

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## Photometric Results

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Lumens(lm): 1107.74  
Efficiency(%): 71.98%  
Lumens(lm)/Power(W): 106.21  
Central intensity(cd): 3728.813  
Maximum intensity(cd): 3728.813  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=33.0  
                                  [C90/270]Total=33.0  
Field angle(10%Imax): [C0/180]Total=48.3  
                                  [C90/270]Total=48.3  
Maximum s/h(1/2): C0\_180=0.55 C90\_270=0.55  
Maximum s/h(1/4): C0\_180=0.52 C90\_270=0.52  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 71.98%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.500%

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Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2019/10/19  
Humidity(%): 65.0%

Operator: NT07  
Distance(m): 7.50

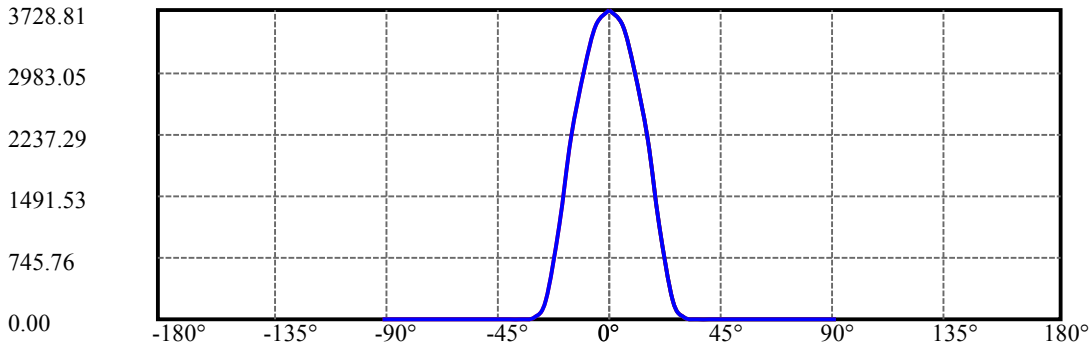
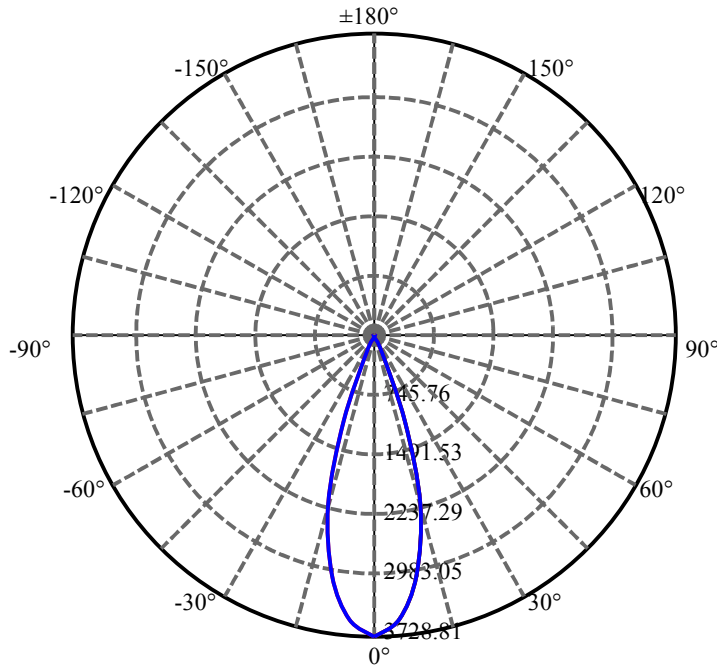
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3728.813	0.000	0	.000%	.000%
5.0	3537.914	86.872	86.872	5.645%	7.842%
10.0	3018.094	234.529	321.401	15.239%	29.014%
15.0	2174.555	308.024	629.425	20.015%	56.821%
20.0	1125.373	271.960	901.385	17.671%	81.372%
25.0	224.030	141.527	1042.913	9.196%	94.148%
30.0	19.589	30.830	1073.743	2.003%	96.931%
35.0	9.780	4.325	1078.068	.281%	97.322%
40.0	7.446	2.874	1080.942	.187%	97.581%
45.0	6.420	2.567	1083.509	.167%	97.813%
50.0	5.941	2.498	1086.007	.162%	98.038%
55.0	5.667	2.524	1088.531	.164%	98.266%
60.0	5.541	2.591	1091.122	.168%	98.500%
65.0	5.442	2.670	1093.792	.173%	98.741%
70.0	5.386	2.742	1096.534	.178%	98.989%
75.0	5.407	2.821	1099.355	.183%	99.243%
80.0	5.210	2.841	1102.195	.185%	99.500%
85.0	5.091	2.799	1104.994	.182%	99.753%
90.0	4.922	2.742	1107.736	.178%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1073.74	69.77%	96.93%
0-40	1080.94	70.24%	97.58%
0-60	1091.12	70.90%	98.50%
0-90	1104.99	71.80%	99.75%
0-120	1104.99	71.80%	99.75%
0-180	1107.74	71.98%	100.00%
60-90	16.46	1.07%	1.49%
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%
0-19.72	886.19	57.58%	80.00%

ZONAL LUMEN SUMMARY

0-10	321.40
10-20	579.98
20-30	172.36
30-40	7.20
40-50	5.07
50-60	5.11
60-70	5.41
70-80	5.66
80-90	2.80
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: —————

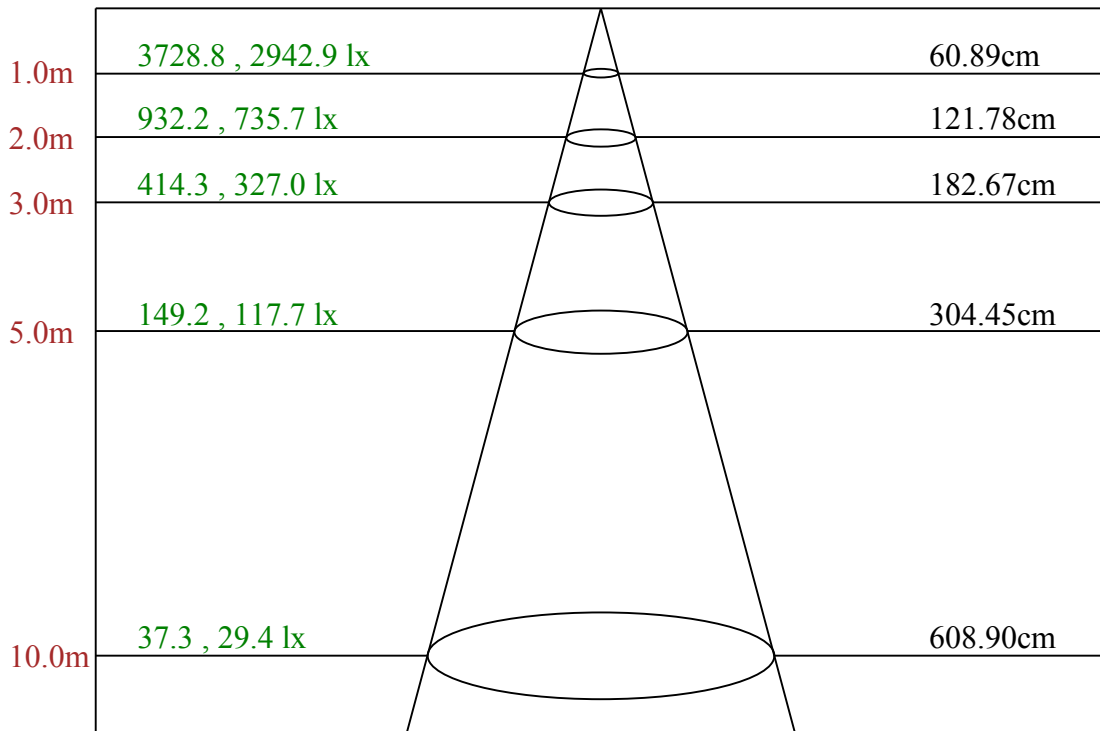
C90/C270: —————

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

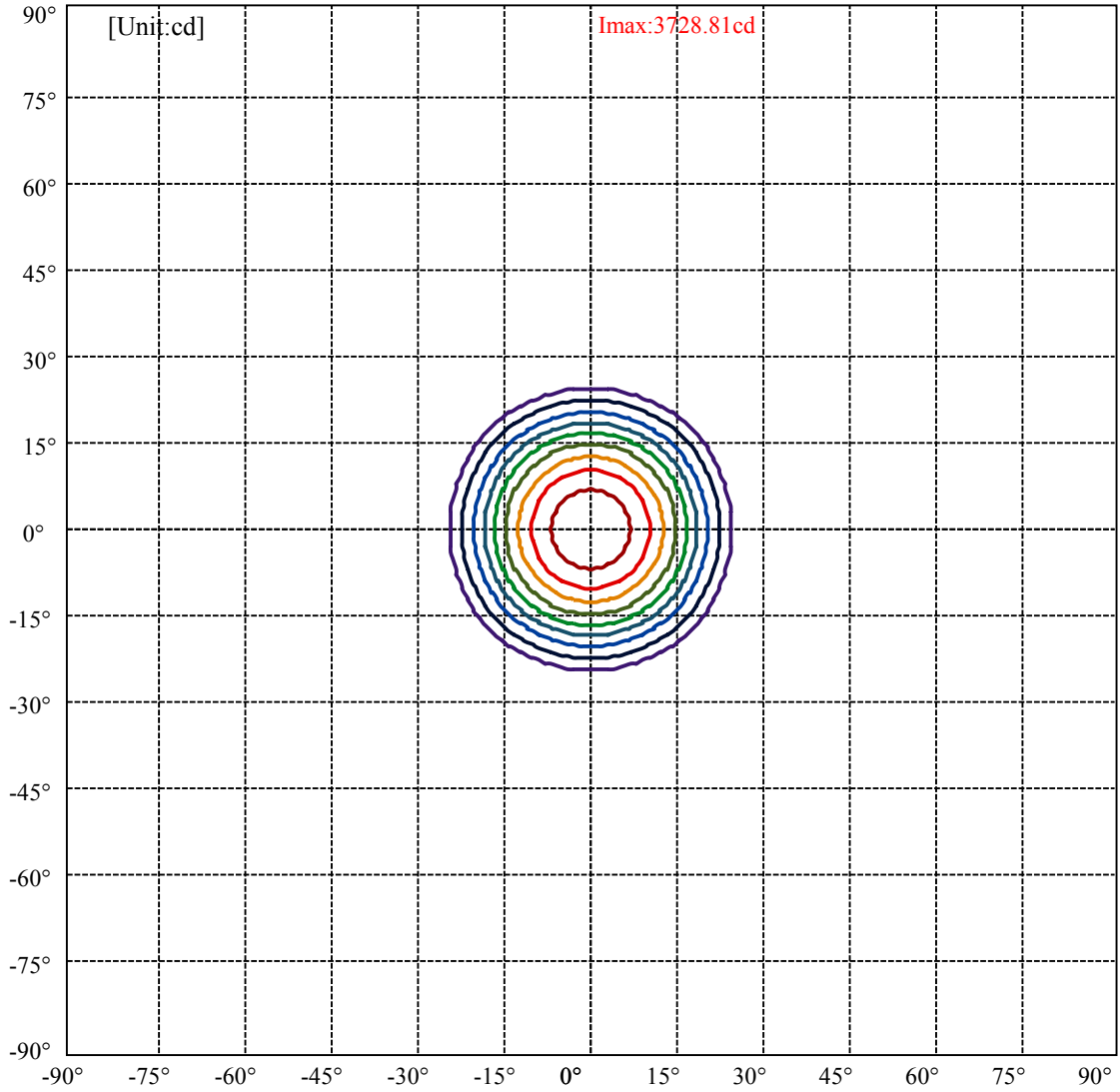
:C90/270Left:24.2 Right:24.2

Beam Angle(50%Imax):C0/180Left:16.5 Right:16.5

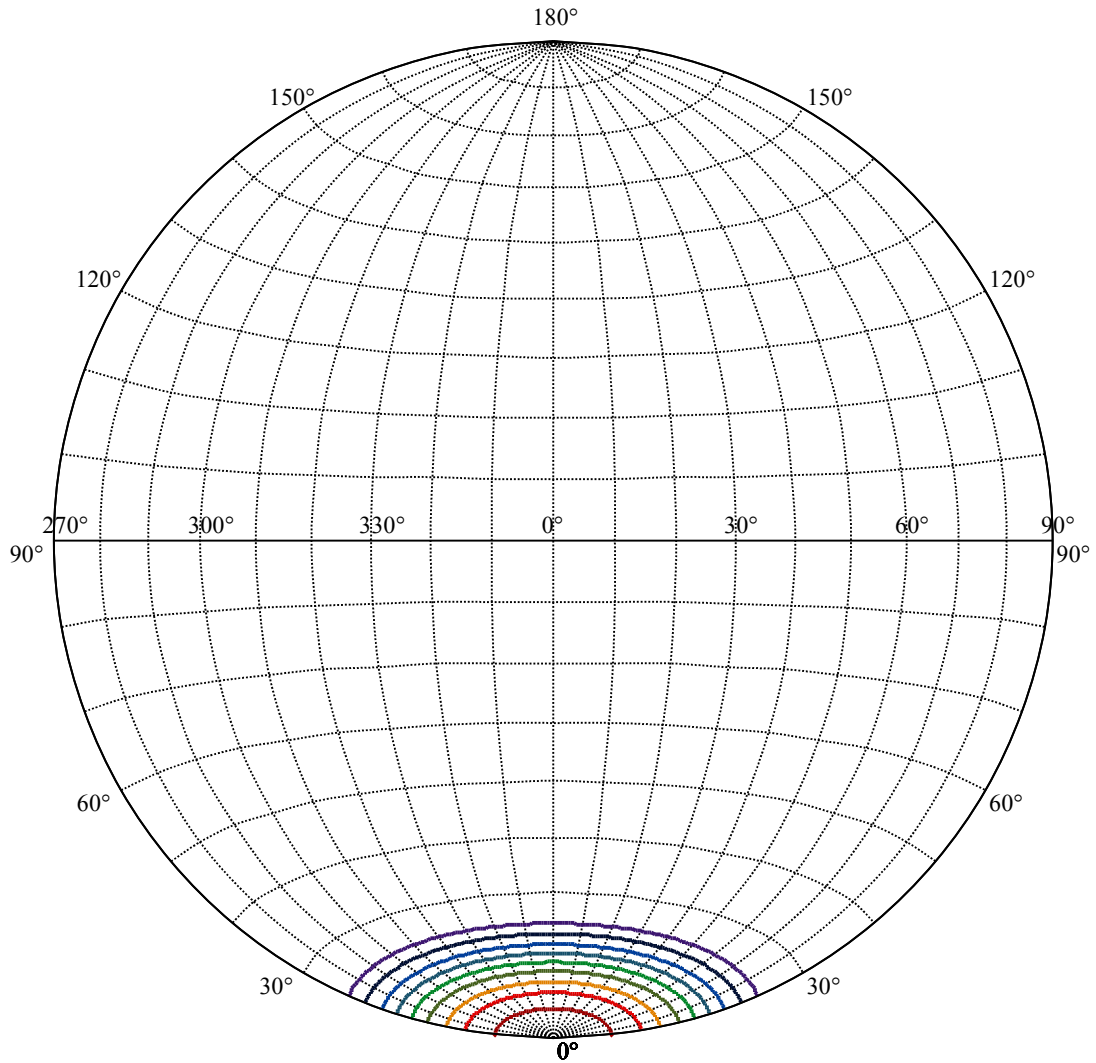
:C90/270Left:16.5 Right:16.5



Max , Ave      Beam angle of C0 plane 33.87



(10%Imax) 372.881	—
(20%Imax) 745.763	—
(30%Imax) 1118.64	—
(40%Imax) 1491.53	—
(50%Imax) 1864.41	—
(60%Imax) 2237.29	—
(70%Imax) 2610.17	—
(80%Imax) 2983.05	—
(90%Imax) 3355.93	—



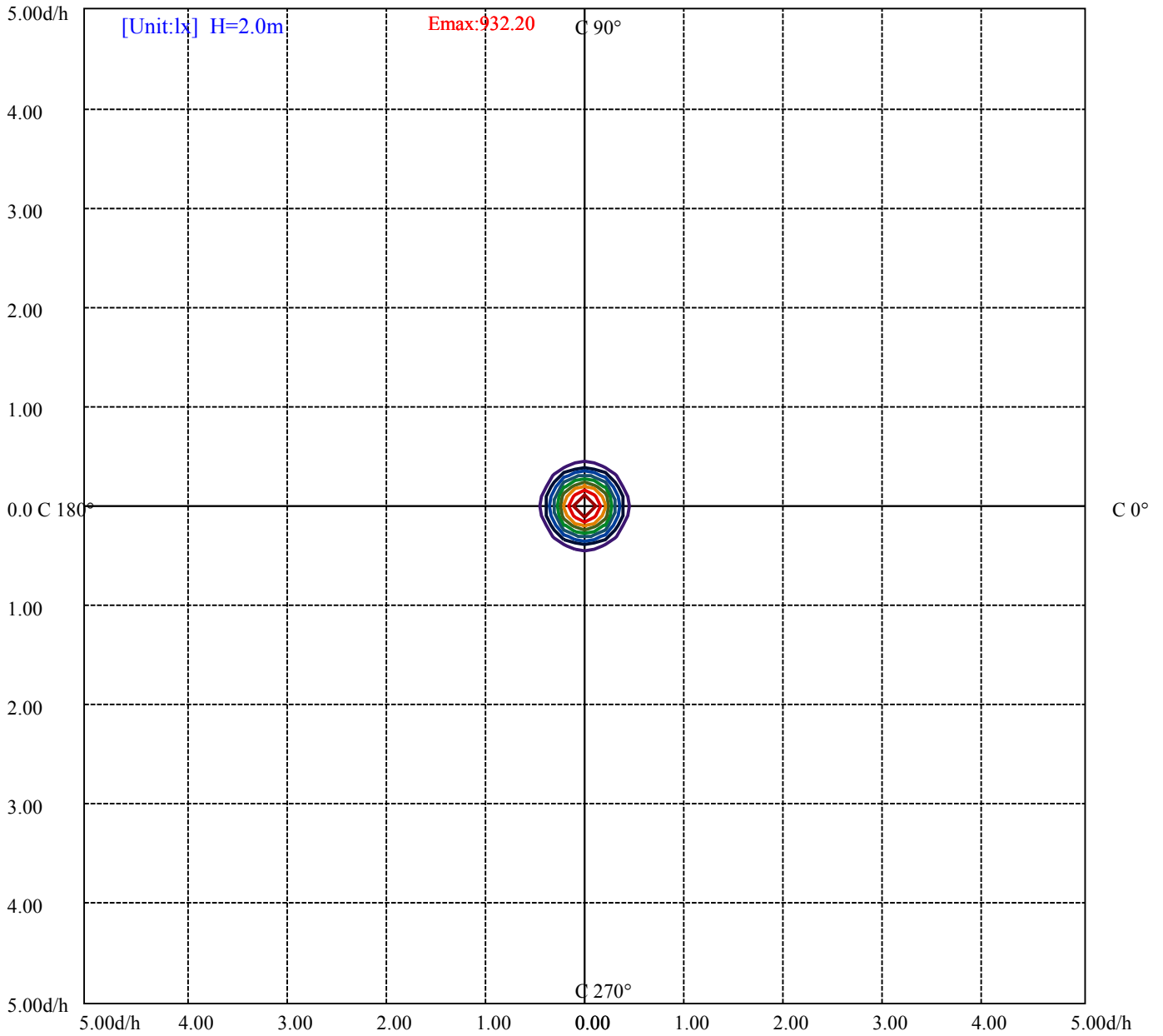
House

[Unit:cd]

Road

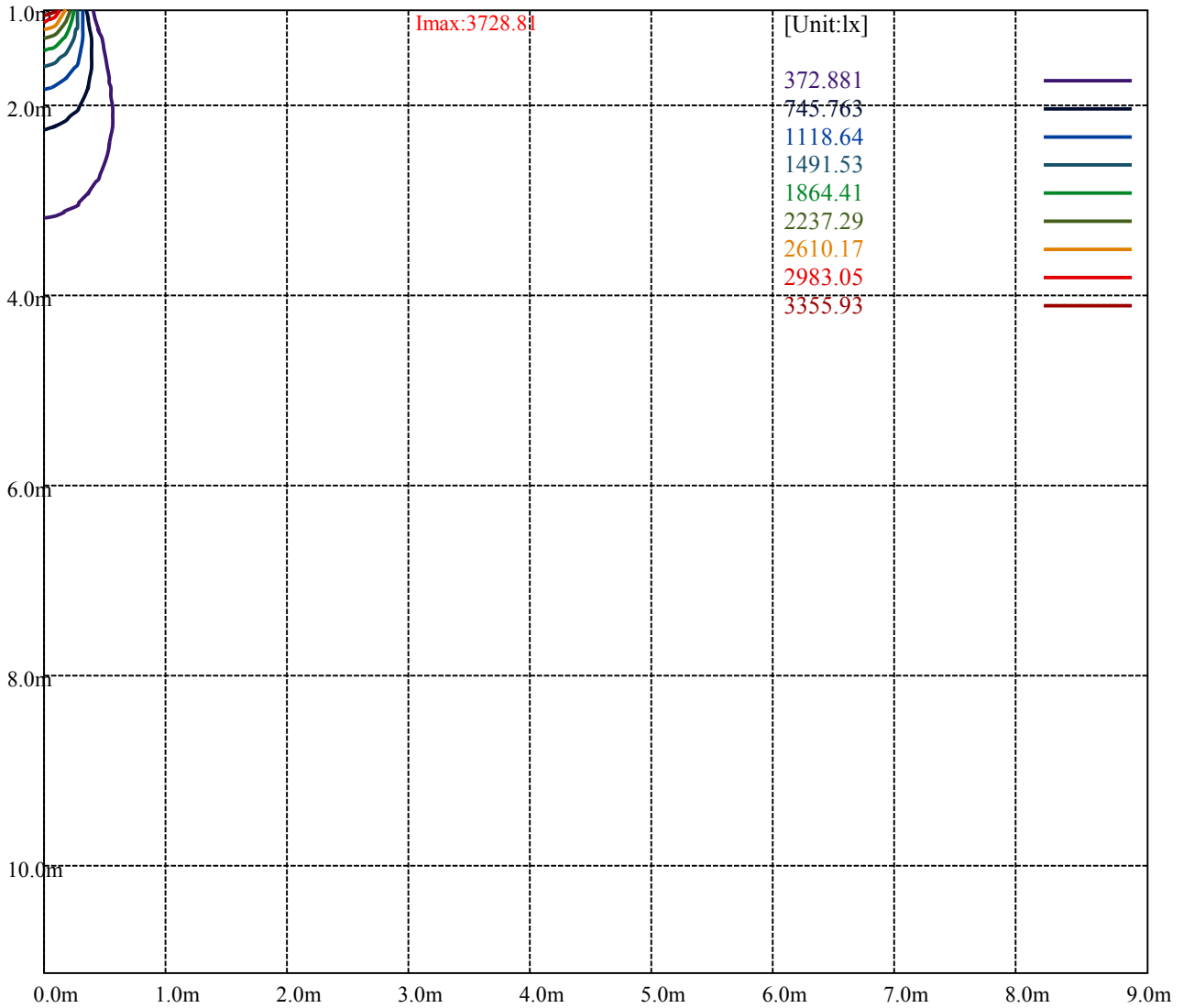
**Imax:3728.81**

(10%Imax) 372.881	—
(20%Imax) 745.763	—
(30%Imax) 1118.64	—
(40%Imax) 1491.53	—
(50%Imax) 1864.41	—
(60%Imax) 2237.29	—
(70%Imax) 2610.17	—
(80%Imax) 2983.05	—
(90%Imax) 3355.93	—



(10%Emax) 93.22025	—
(20%Emax) 186.4402	—
(30%Emax) 279.66	—
(40%Emax) 372.88	—
(50%Emax) 466.1	—
(60%Emax) 559.32	—
(70%Emax) 652.54	—
(80%Emax) 745.7625	—
(90%Emax) 838.9825	—





Luminance Table

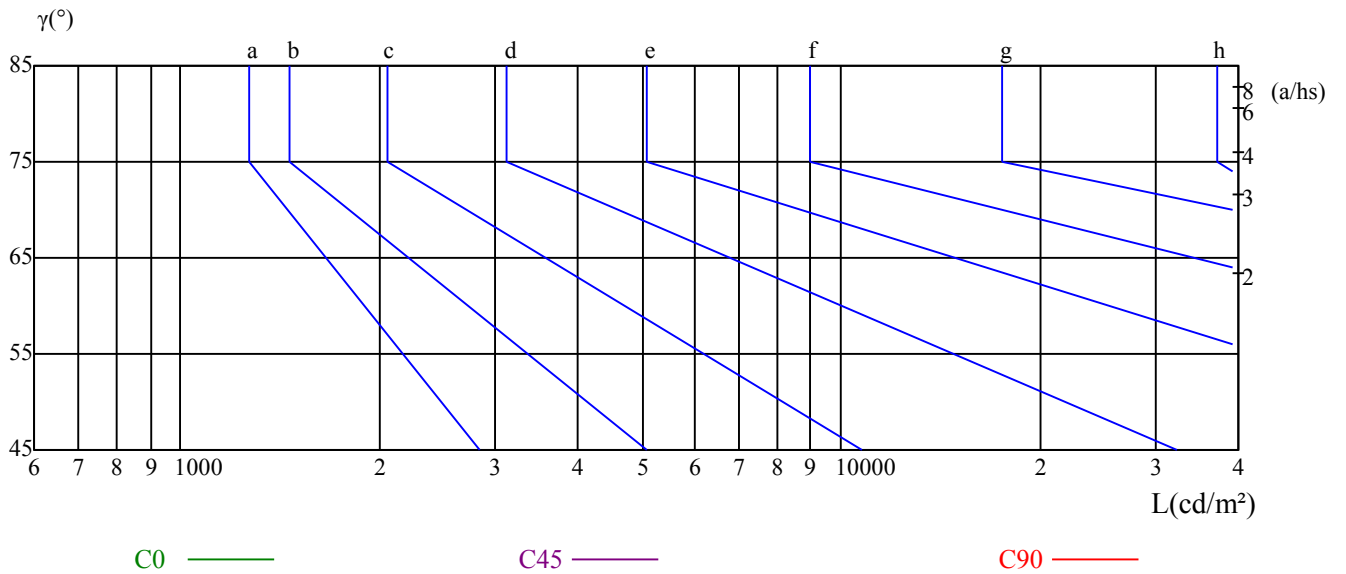
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

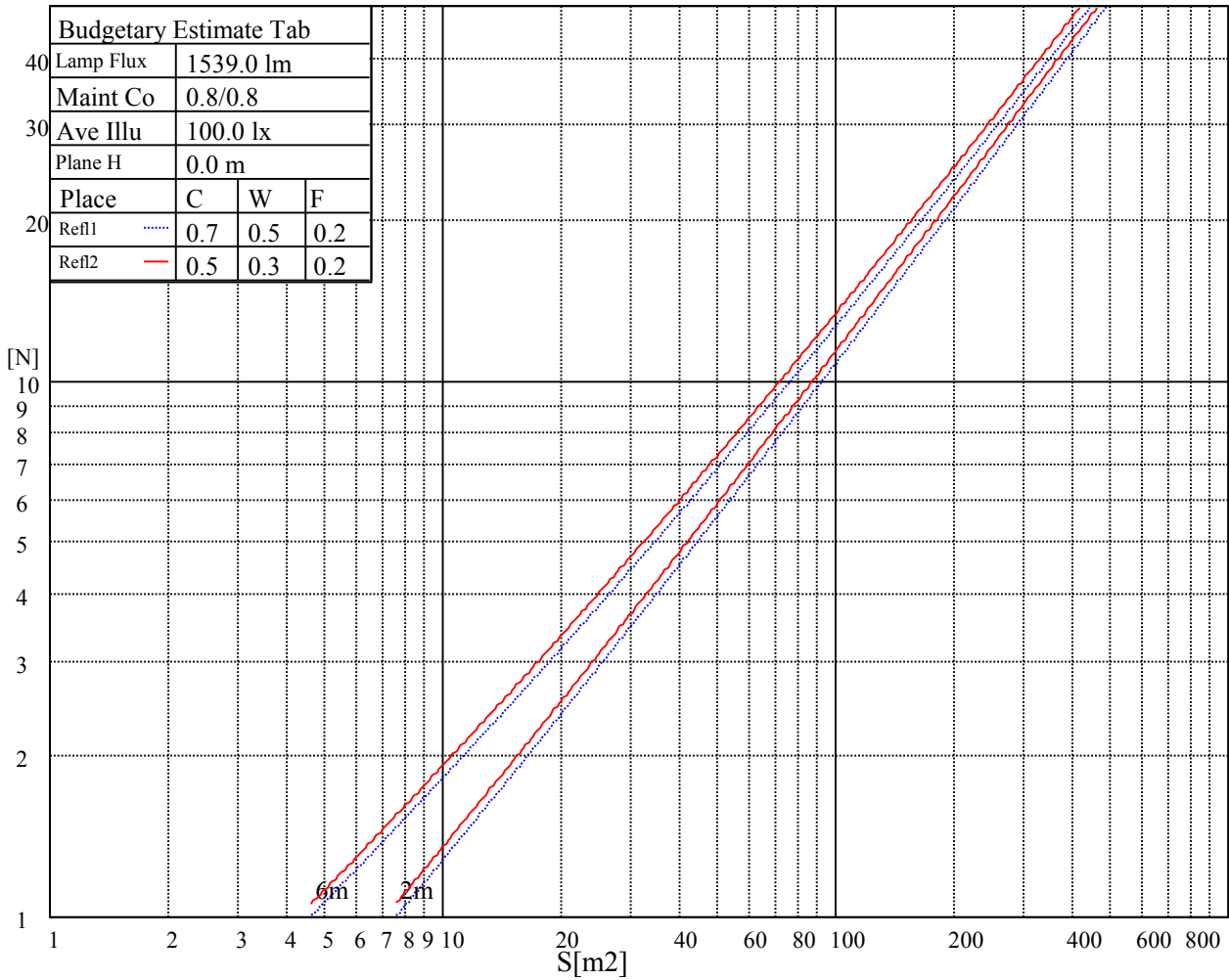
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

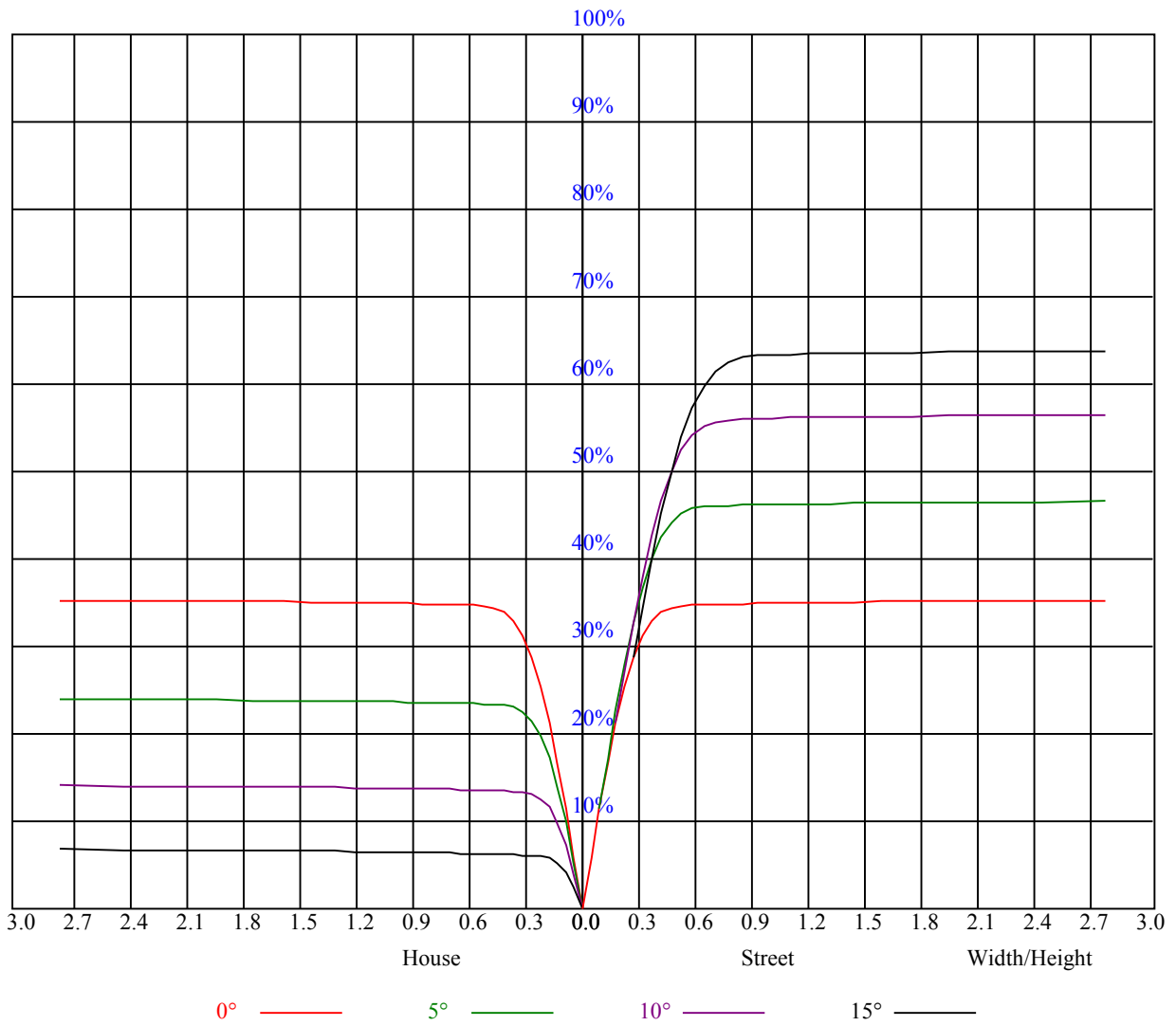
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.86	0.86	0.86	0.84	0.84	0.84	0.80	0.80	0.80	0.77	0.77	0.77	0.73	0.73	0.73	0.72
1	0.81	0.79	0.78	0.79	0.78	0.77	0.76	0.75	0.74	0.74	0.73	0.72	0.71	0.71	0.70	0.69
2	0.77	0.75	0.73	0.76	0.74	0.72	0.73	0.72	0.70	0.71	0.70	0.69	0.69	0.68	0.67	0.66
3	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.69	0.67	0.66	0.68	0.66	0.65	0.64
4	0.71	0.68	0.65	0.70	0.67	0.65	0.68	0.66	0.64	0.67	0.65	0.64	0.66	0.64	0.63	0.62
5	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.65	0.63	0.61	0.64	0.62	0.61	0.60
6	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.63	0.61	0.59	0.62	0.60	0.59	0.58
7	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.61	0.59	0.57	0.61	0.59	0.57	0.56
8	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.60	0.57	0.56	0.59	0.57	0.55	0.55
9	0.59	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.58	0.55	0.54	0.53
10	0.58	0.55	0.53	0.57	0.55	0.53	0.57	0.54	0.53	0.56	0.54	0.52	0.56	0.54	0.52	0.52



Nata 1-1010-M

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	3728.25	3589.88	3120.19	2282.06	1233.56	286.88	22.73	10.41	7.76
45.0	3732.75	3540.94	3028.50	2163.38	1208.81	304.31	18.17	9.73	7.54
90.0	3719.25	3461.63	2856.94	1920.38	883.46	93.60	14.74	9.17	7.37
135.0	3735.00	3548.81	3043.69	2238.19	1099.69	352.13	17.94	9.39	7.31
180.0	3728.25	3473.44	2907.00	2057.63	966.54	108.11	15.98	8.94	7.03
225.0	3732.75	3547.13	3000.38	2178.56	1114.71	155.81	18.51	9.62	7.20
270.0	3719.25	3610.13	3159.00	2400.75	1395.00	309.38	28.13	11.03	7.82
315.0	3735.00	3531.38	3029.06	2155.50	1101.21	182.03	20.53	9.96	7.54
360.0	3728.25	3589.88	3120.19	2282.06	1233.56	286.88	22.73	10.41	7.76
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.58	6.02	5.74	5.57	5.46	5.40	5.34	5.23	5.34
45.0	6.53	6.08	5.79	5.68	5.57	5.51	5.46	5.51	5.34
90.0	6.47	6.08	5.85	5.79	5.74	5.74	6.30	5.18	5.01
135.0	6.41	5.91	5.63	5.51	5.34	5.29	5.18	5.12	4.95
180.0	6.19	5.74	5.46	5.34	5.23	5.18	5.12	5.06	4.95
225.0	6.24	5.79	5.57	5.40	5.34	5.29	5.23	5.12	4.95
270.0	6.53	6.02	5.68	5.51	5.46	5.34	5.34	5.18	5.01
315.0	6.41	5.91	5.63	5.51	5.40	5.34	5.29	5.29	5.18
360.0	6.58	6.02	5.74	5.57	5.46	5.40	5.34	5.23	5.34
C/γ(°)	90.0								
0.0	4.95								
45.0	4.89								
90.0	4.89								
135.0	4.95								
180.0	4.95								
225.0	4.89								
270.0	4.89								
315.0	4.95								
360.0	4.95								