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Nata

LumCAT: 1-1010-M
Luminaire: BJB 47.360.1020
Report No: 210716-B012
Test No: 210716-C012
LampCAT: Fortimo LED SLM 1203 G7N
Lamp flux(lm): 2154.2
Number of Lamps: 1
Length(mm): 570
Phm Type: C

Voltage(V): 36.9900
Current(A): 0.4510
Power (W): 16.6820
PF: 0.0000
Ballast type: DC
Width(mm): 45
Height(mm): 20

Photometric Results

Lumens(lm): 1487.81
Efficiency(%): 69.07%
Lumens(lm)/Power(W): 89.19
Central intensity(cd): 4633.172
Maximum intensity(cd): 4633.172
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.4
 [C90/270]Total=34.4
Field angle(10%Imax): [C0/180]Total=49.5
 [C90/270]Total=49.5
IES Classification : TypeI
Longitudinal Classification : VeryShort
Cut Off Classification : Cutoff
Max Cd(At 90°Vert) : 6.75
Max Cd(80 to 90°Vert) : 7.136719
Street Side UpWard Lumens: - -of Lamp 0.00%of Luminaire
Street Side DownWard Lumens: 34.53%of Lamp 50.00%of Luminaire
House Side UpWard Lumens: - -of lamp 0.00%of Luminaire
House Side DownWard Lumens: 34.53%of Lamp 50.00%of Luminaire

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/7/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

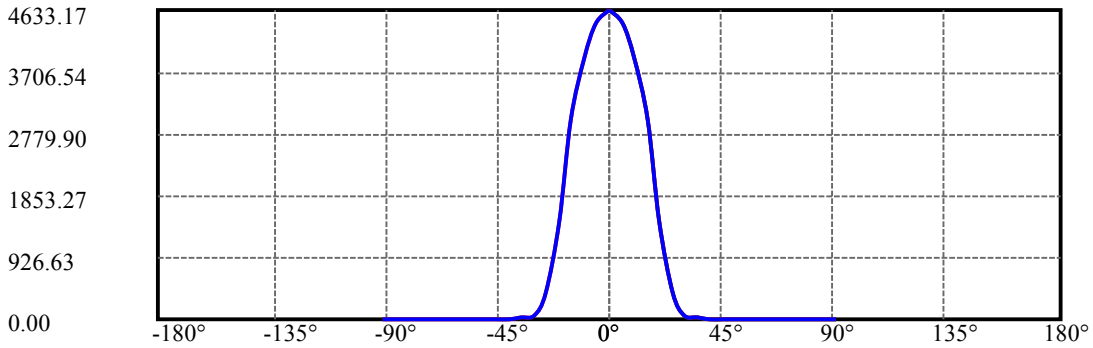
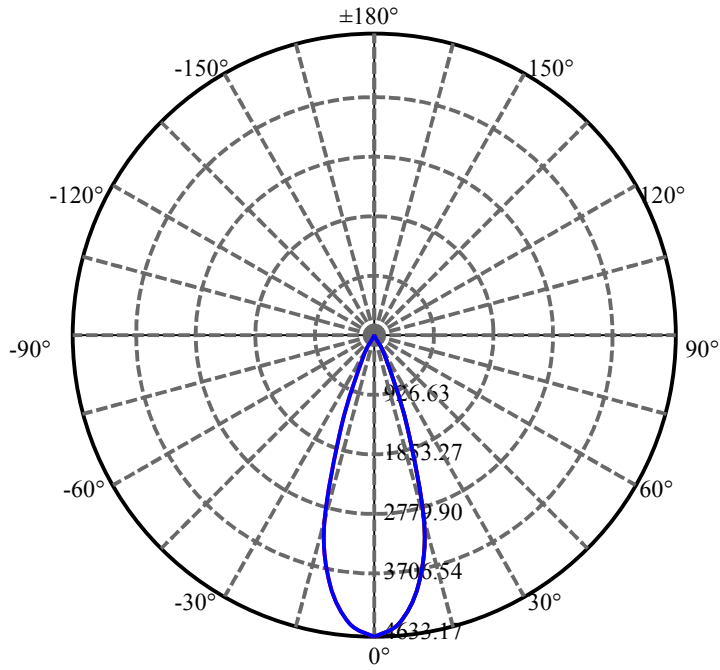
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4633.172	0.000	0	.000%	.000%
5.0	4445.227	108.530	108.53	5.038%	7.295%
10.0	3903.188	298.649	407.179	13.864%	27.368%
15.0	2989.758	408.885	816.064	18.981%	54.850%
20.0	1461.473	366.844	1182.908	17.029%	79.507%
25.0	405.253	195.785	1378.693	9.088%	92.666%
30.0	51.680	57.825	1436.518	2.684%	96.553%
35.0	15.405	9.879	1446.397	.459%	97.217%
40.0	10.399	4.305	1450.702	.200%	97.506%
45.0	8.937	3.580	1454.282	.166%	97.747%
50.0	8.304	3.484	1457.766	.162%	97.981%
55.0	7.945	3.533	1461.299	.164%	98.218%
60.0	7.727	3.623	1464.922	.168%	98.462%
65.0	7.594	3.725	1468.646	.173%	98.712%
70.0	7.516	3.826	1472.472	.178%	98.969%
75.0	7.425	3.905	1476.378	.181%	99.232%
80.0	7.137	3.896	1480.274	.181%	99.494%
85.0	6.870	3.806	1484.08	.177%	99.749%
90.0	6.750	3.729	1487.809	.173%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1436.52	66.68%	96.55%
0-40	1450.70	67.34%	97.51%
0-60	1464.92	68.00%	98.46%
0-90	1484.08	68.89%	99.75%
0-120	1484.08	68.89%	99.75%
0-180	1487.81	69.07%	100.00%
60-90	22.78	1.06%	1.53%
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%
0-20.19	1190.25	55.25%	80.00%

ZONAL LUMEN SUMMARY

0-10	407.18
10-20	775.73
20-30	253.61
30-40	14.18
40-50	7.06
50-60	7.16
60-70	7.55
70-80	7.80
80-90	3.81
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: —————

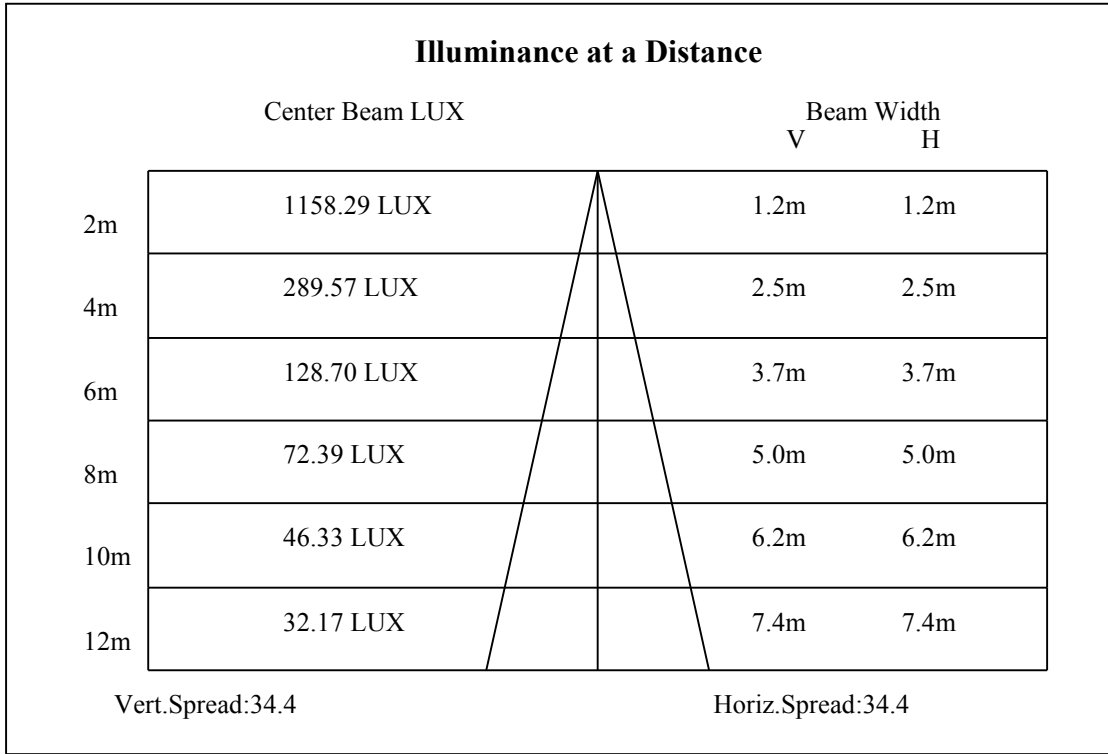
C90/C270: —————

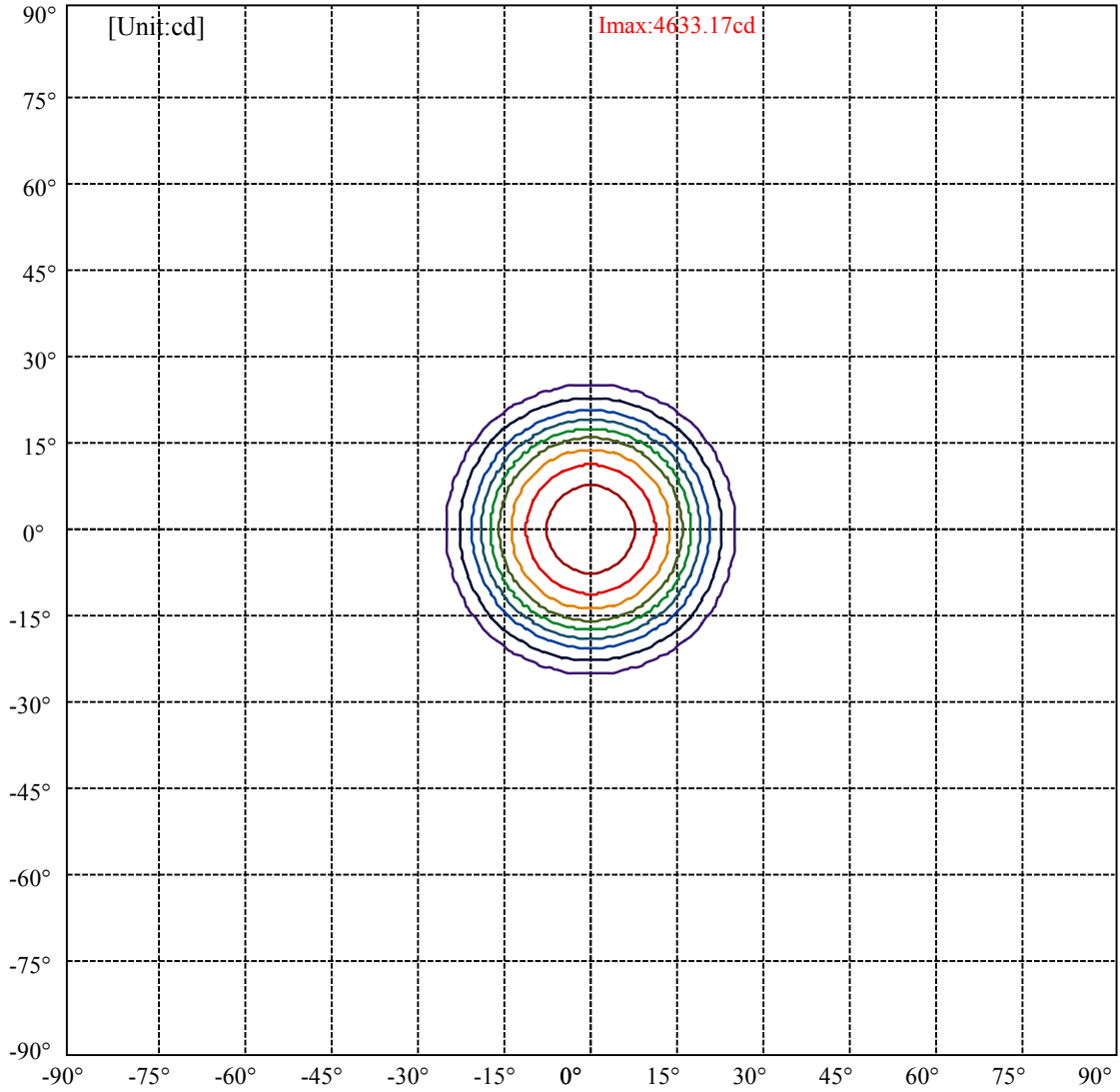
Field angle(10%Imax):C0/180Left:24.7 Right:24.7

:C90/270Left:24.7 Right:24.7

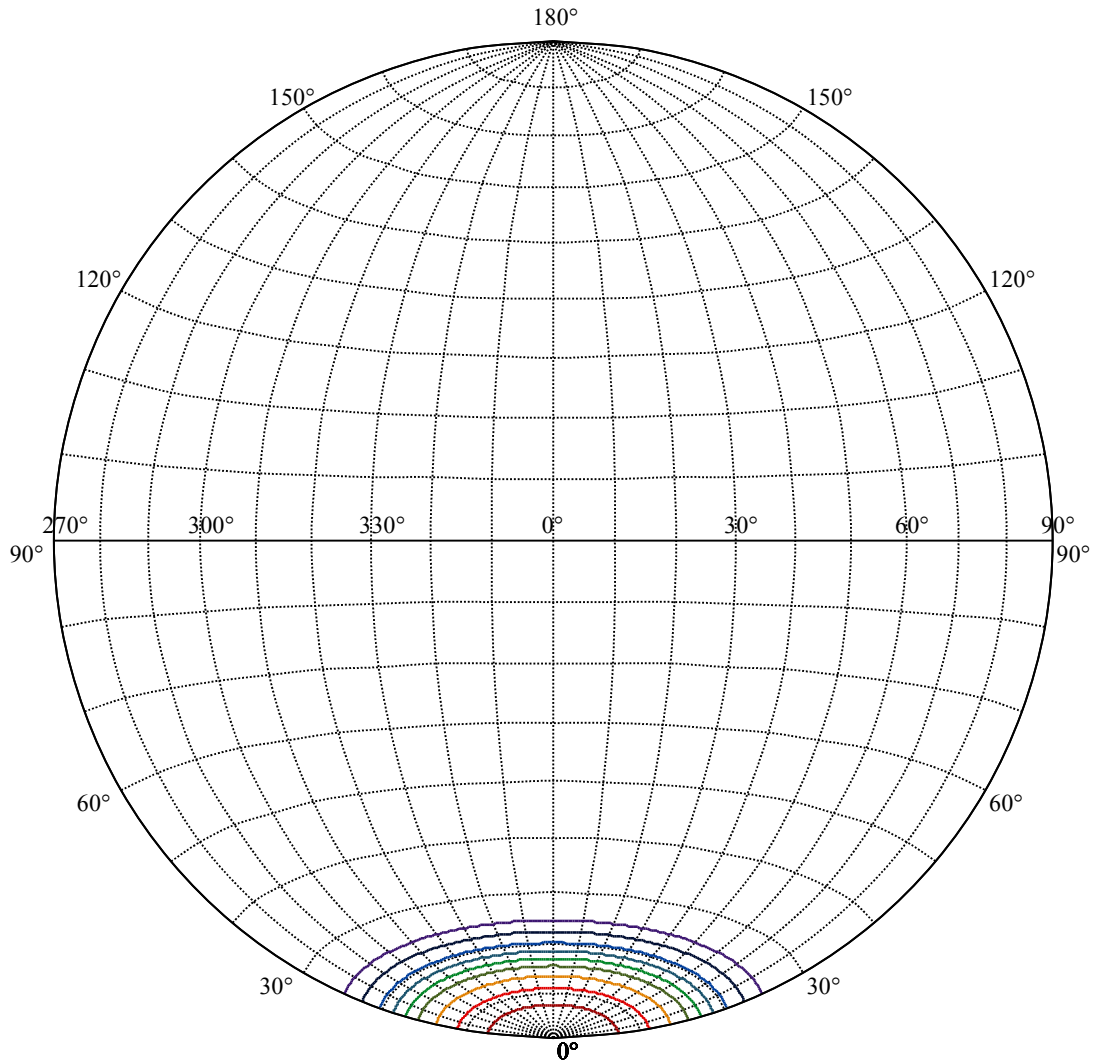
Beam Angle(50%Imax):C0/180Left:17.2 Right:17.2

:C90/270Left:17.2 Right:17.2





(10%Imax) 463.317	—
(20%Imax) 926.634	—
(30%Imax) 1389.95	—
(40%Imax) 1853.27	—
(50%Imax) 2316.59	—
(60%Imax) 2779.9	—
(70%Imax) 3243.22	—
(80%Imax) 3706.54	—
(90%Imax) 4169.85	—



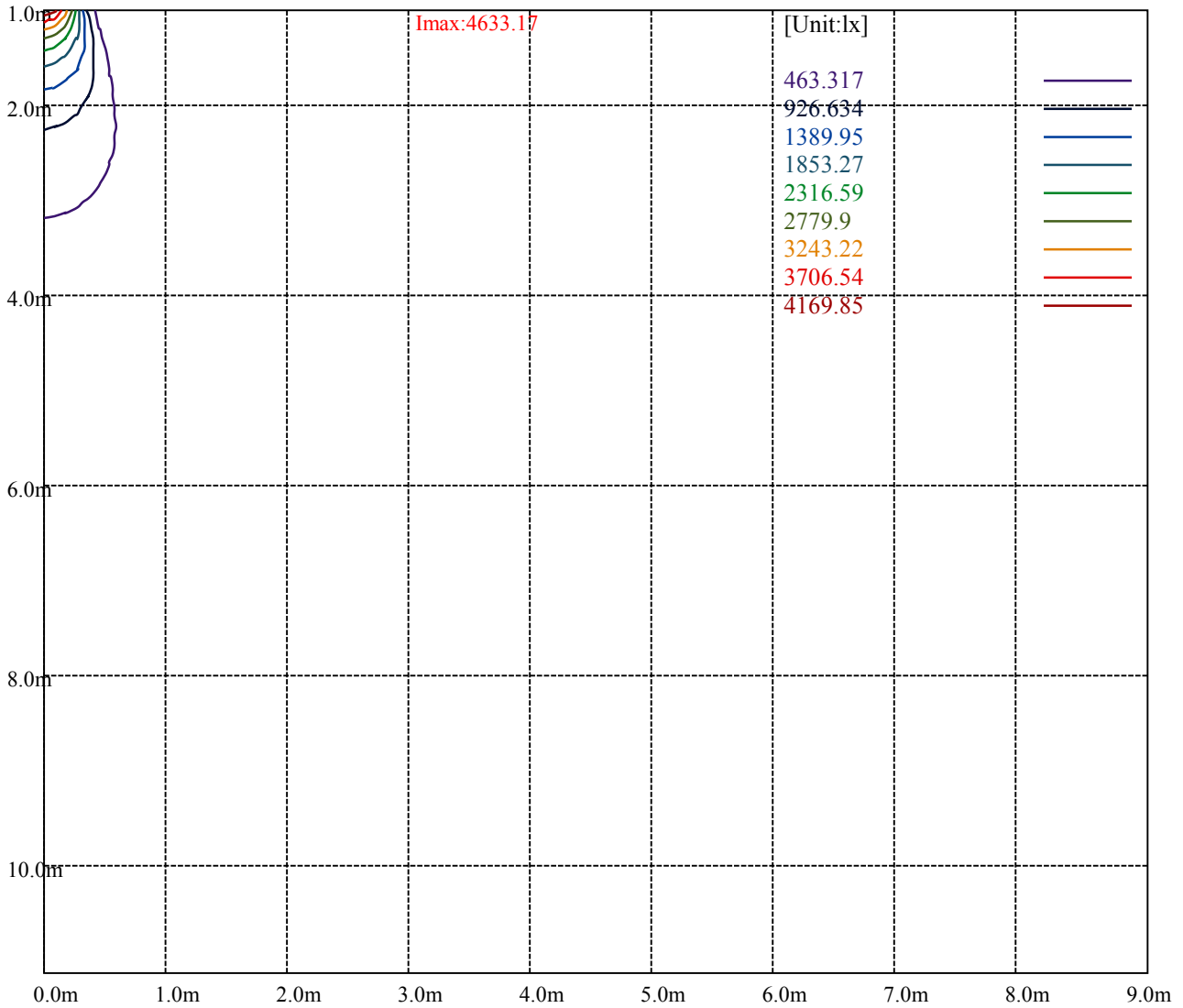
House

[Unit:cd]

Road

Imax:4633.17

(10%Imax) 463.317	—
(20%Imax) 926.634	—
(30%Imax) 1389.95	—
(40%Imax) 1853.27	—
(50%Imax) 2316.59	—
(60%Imax) 2779.9	—
(70%Imax) 3243.22	—
(80%Imax) 3706.54	—
(90%Imax) 4169.85	—



Luminance Table

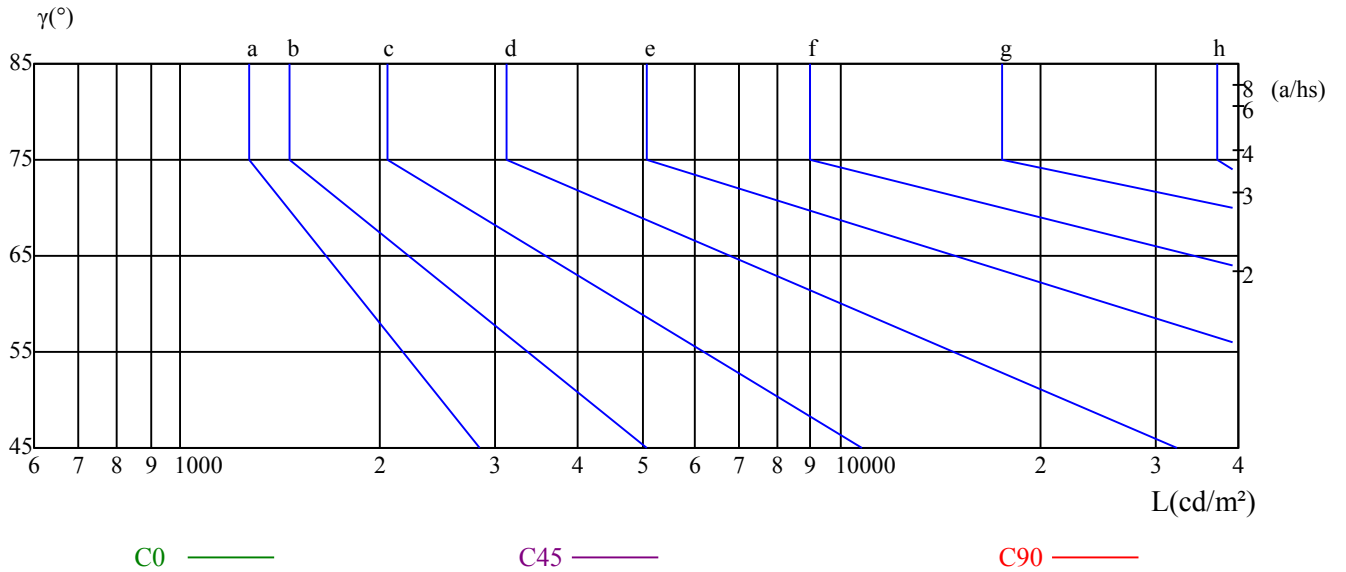
γ	45	50	55	60	65	70	75	80	85
C0	341	329	330	340	359	386	421	455	505
C45	368	359	364	380	406	444	494	548	630
C90	476	483	514	568	651	781	989	1336	2193

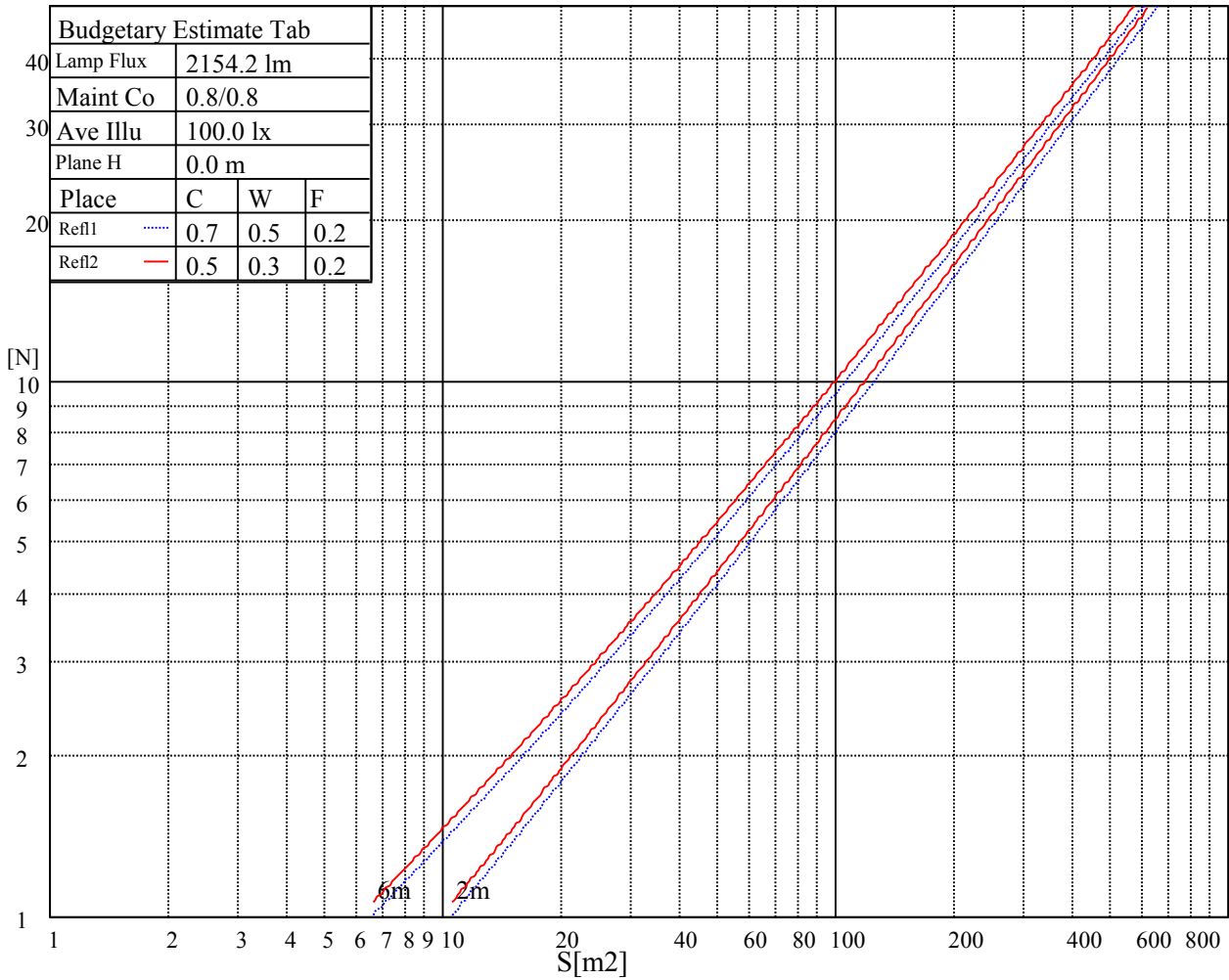
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
701	701	701	1118	1118	1118	3073	3073	3073

Glare Table

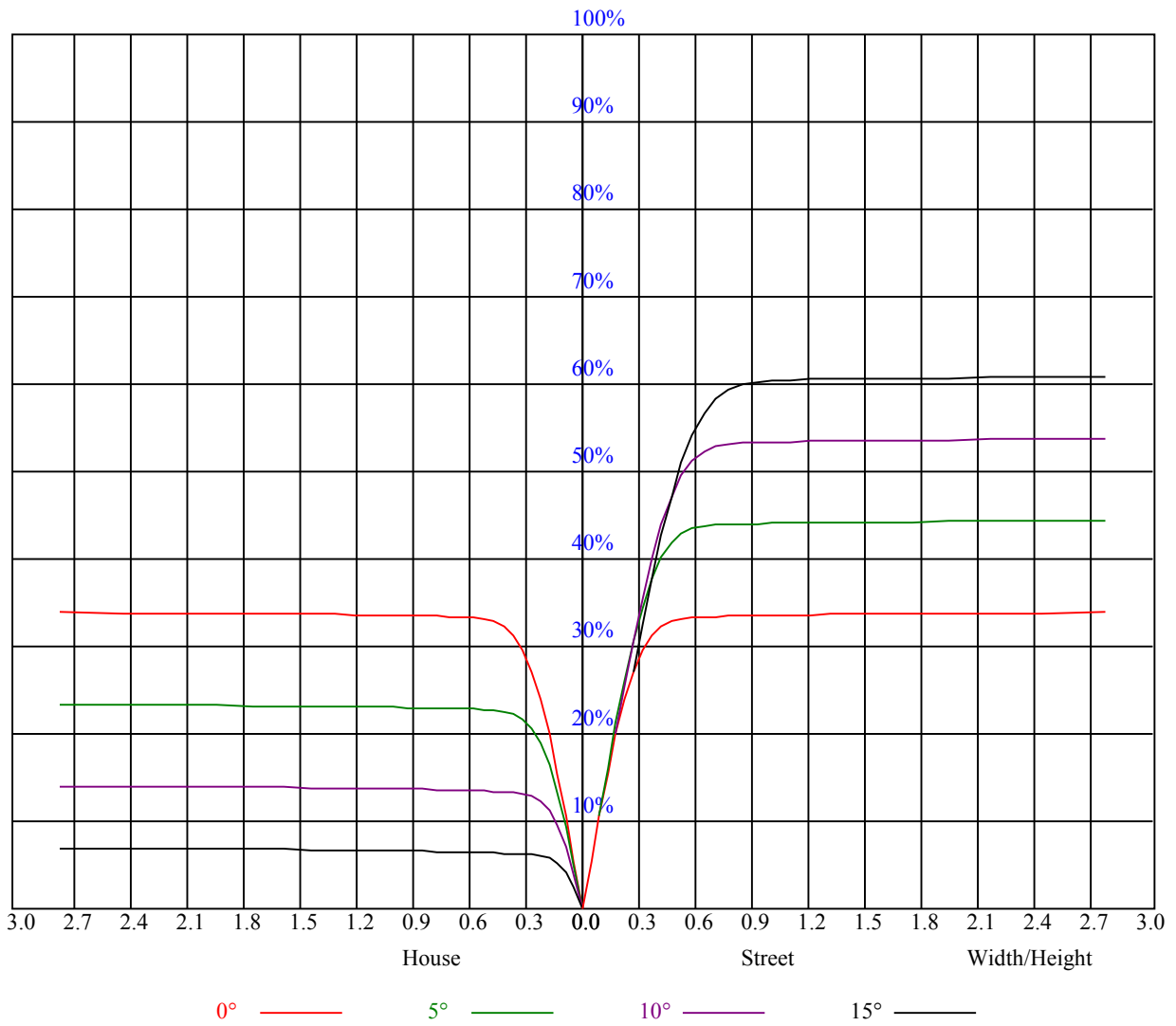
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.82	0.82	0.82	0.80	0.80	0.80	0.77	0.77	0.77	0.73	0.73	0.73	0.70	0.70	0.70	0.69
1	0.78	0.76	0.75	0.76	0.75	0.74	0.73	0.72	0.71	0.71	0.70	0.69	0.68	0.68	0.67	0.66
2	0.74	0.71	0.70	0.73	0.71	0.69	0.70	0.69	0.67	0.68	0.67	0.66	0.67	0.65	0.65	0.64
3	0.70	0.68	0.66	0.69	0.67	0.65	0.68	0.66	0.64	0.66	0.64	0.63	0.65	0.63	0.62	0.61
4	0.67	0.65	0.62	0.67	0.64	0.62	0.65	0.63	0.61	0.64	0.62	0.61	0.63	0.61	0.60	0.59
5	0.65	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.62	0.60	0.58	0.61	0.59	0.58	0.57
6	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.60	0.58	0.56	0.59	0.57	0.56	0.55
7	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.57	0.55	0.58	0.56	0.54	0.58	0.56	0.54	0.53
8	0.58	0.55	0.53	0.58	0.55	0.53	0.57	0.55	0.53	0.57	0.54	0.53	0.56	0.54	0.53	0.52
9	0.56	0.54	0.52	0.56	0.53	0.51	0.56	0.53	0.51	0.55	0.53	0.51	0.55	0.53	0.51	0.50
10	0.55	0.52	0.50	0.54	0.52	0.50	0.54	0.51	0.50	0.54	0.51	0.50	0.53	0.51	0.50	0.49



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	4620.38	4506.19	4070.81	3232.69	1992.38	679.50	63.62	16.37	10.69
45.0	4645.69	4458.38	3918.94	2993.63	1674.56	398.81	48.04	14.23	10.07
90.0	4633.31	4380.19	3765.38	2777.06	1078.03	271.18	42.36	13.95	9.79
135.0	4632.75	4471.88	3904.88	3076.88	1715.06	385.88	60.81	16.65	10.41
180.0	4620.38	4359.38	3752.44	2716.88	1106.10	272.93	43.88	14.40	10.01
225.0	4645.69	4442.63	3889.69	2976.19	1114.76	355.61	54.90	16.48	10.86
270.0	4634.44	4509.56	4020.19	3198.94	1951.31	528.19	56.87	16.99	11.08
315.0	4632.75	4433.63	3903.19	2945.81	1059.58	349.93	42.98	14.18	10.29
360.0	4620.38	4506.19	4070.81	3232.69	1992.38	679.50	63.62	16.37	10.69
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	8.72	7.99	7.59	7.37	7.26	7.14	7.09	6.98	6.86
45.0	8.72	8.16	7.88	7.71	7.65	7.71	7.76	7.31	6.92
90.0	8.61	8.10	7.82	7.59	7.54	7.43	7.31	7.09	6.81
135.0	8.89	8.10	7.65	7.43	7.20	7.09	6.98	6.98	6.81
180.0	8.89	8.33	7.99	7.76	7.59	7.43	7.26	7.03	6.75
225.0	9.45	8.78	8.49	8.33	8.27	8.33	8.27	7.31	7.09
270.0	9.39	8.83	8.38	8.16	7.99	7.88	7.65	7.43	6.92
315.0	8.83	8.16	7.76	7.48	7.26	7.14	7.09	6.98	6.81
360.0	8.72	7.99	7.59	7.37	7.26	7.14	7.09	6.98	6.86
C/γ(°)	90.0								
0.0	6.69								
45.0	6.81								
90.0	6.75								
135.0	6.69								
180.0	6.75								
225.0	6.86								
270.0	6.75								
315.0	6.69								
360.0	6.69								