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Nata

LumCAT: 1-1007-M	
Luminaire: BJB 47.360.1020	
Report No: 210714-B014	Voltage(V): 39.0900
Test No: 210714-C014	Current(A): 0.2310
LampCAT: Fortimo LED SLM 1201 G7N	Power (W): 9.0290
Lamp flux(lm): 1093.7	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 810.82
Efficiency(%): 74.14%
Lumens(lm)/Power(W): 89.80
Central intensity(cd): 2578.078
Maximum intensity(cd): 2578.078
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=33.2
[C90/270]Total=33.2
Field angle(10%Imax): [C0/180]Total=50.5
[C90/270]Total=50.5
Maximum s/h(1/2): C0_180=0.55 C90_270=0.55
Maximum s/h(1/4): C0_180=0.54 C90_270=0.54
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 74.14%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.539%

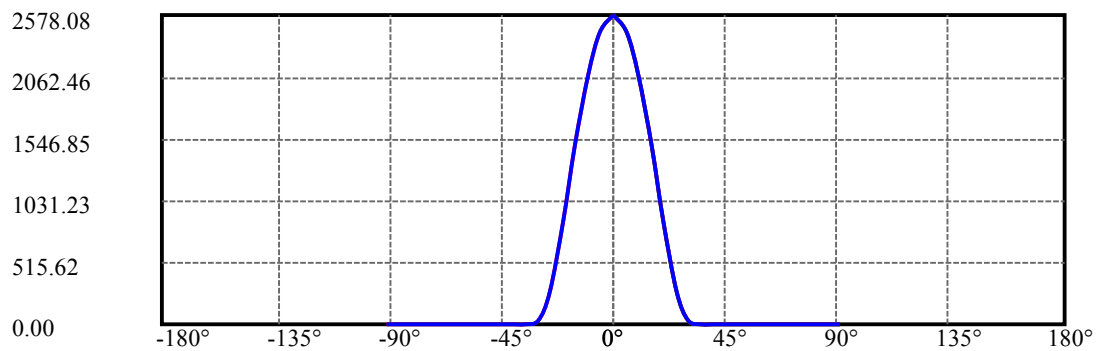
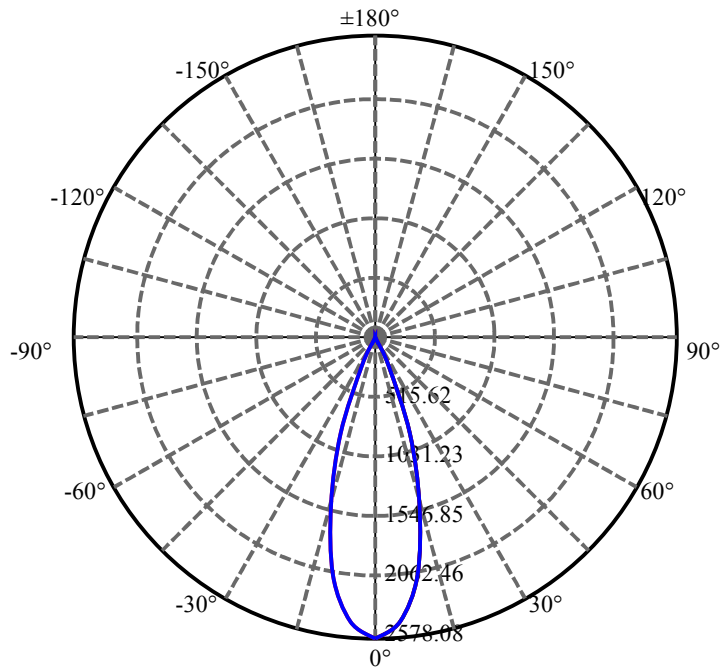
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2578.078	0.000	0	.000%	.000%
5.0	2440.898	60.000	60	5.486%	7.400%
10.0	2075.414	161.563	221.563	14.773%	27.326%
15.0	1484.641	211.180	432.743	19.310%	53.371%
20.0	869.020	193.975	626.718	17.736%	77.294%
25.0	271.005	119.568	746.286	10.933%	92.040%
30.0	29.988	38.091	784.377	3.483%	96.738%
35.0	6.870	5.428	789.804	.496%	97.408%
40.0	5.063	1.991	791.795	.182%	97.653%
45.0	4.479	1.767	793.562	.162%	97.871%
50.0	4.212	1.756	795.318	.161%	98.088%
55.0	4.071	1.801	797.119	.165%	98.310%
60.0	3.987	1.863	798.981	.170%	98.539%
65.0	3.923	1.923	800.904	.176%	98.777%
70.0	3.860	1.971	802.875	.180%	99.020%
75.0	3.825	2.009	804.884	.184%	99.267%
80.0	3.713	2.017	806.901	.184%	99.516%
85.0	3.586	1.983	808.884	.181%	99.761%
90.0	3.502	1.941	810.825	.177%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	784.38	71.72%	96.74%
0-40	791.80	72.40%	97.65%
0-60	798.98	73.06%	98.54%
0-90	808.88	73.96%	99.76%
0-120	808.88	73.96%	99.76%
0-180	810.82	74.14%	100.00%
60-90	11.77	1.08%	1.45%
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%
0-20.92	648.66	59.31%	80.00%

ZONAL LUMEN SUMMARY

0-10	221.56
10-20	405.15
20-30	157.66
30-40	7.42
40-50	3.52
50-60	3.66
60-70	3.89
70-80	4.03
80-90	1.98
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: —————

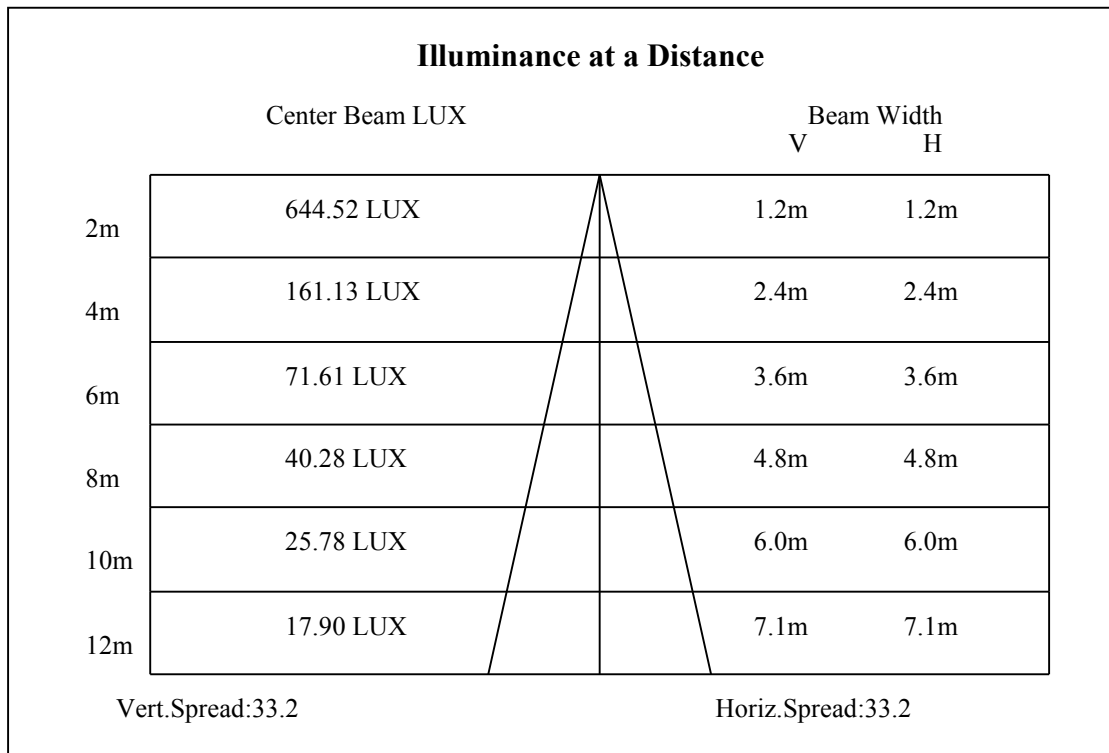
C90/C270: —————

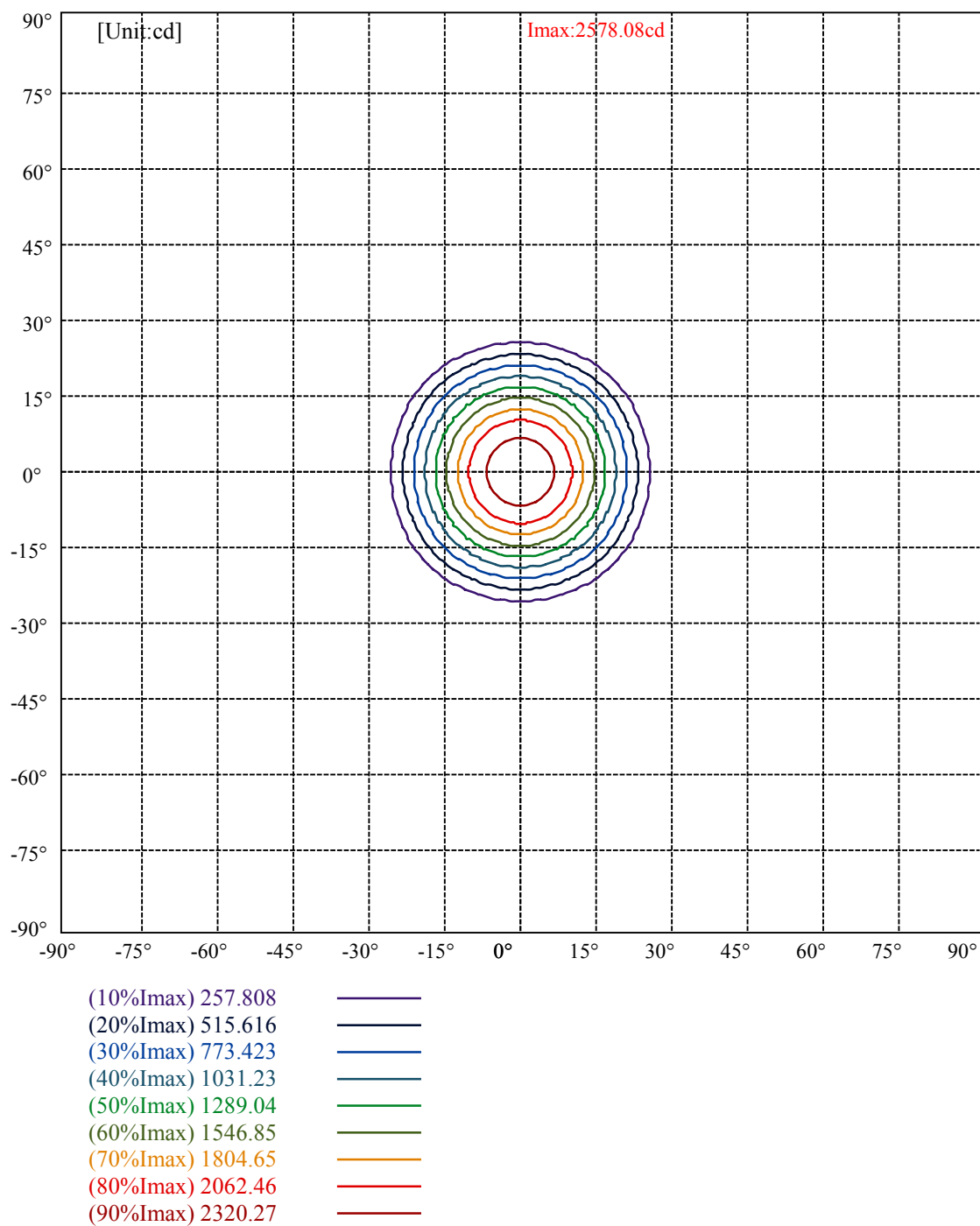
Field angle(10%Imax):C0/180Left:25.3 Right:25.3

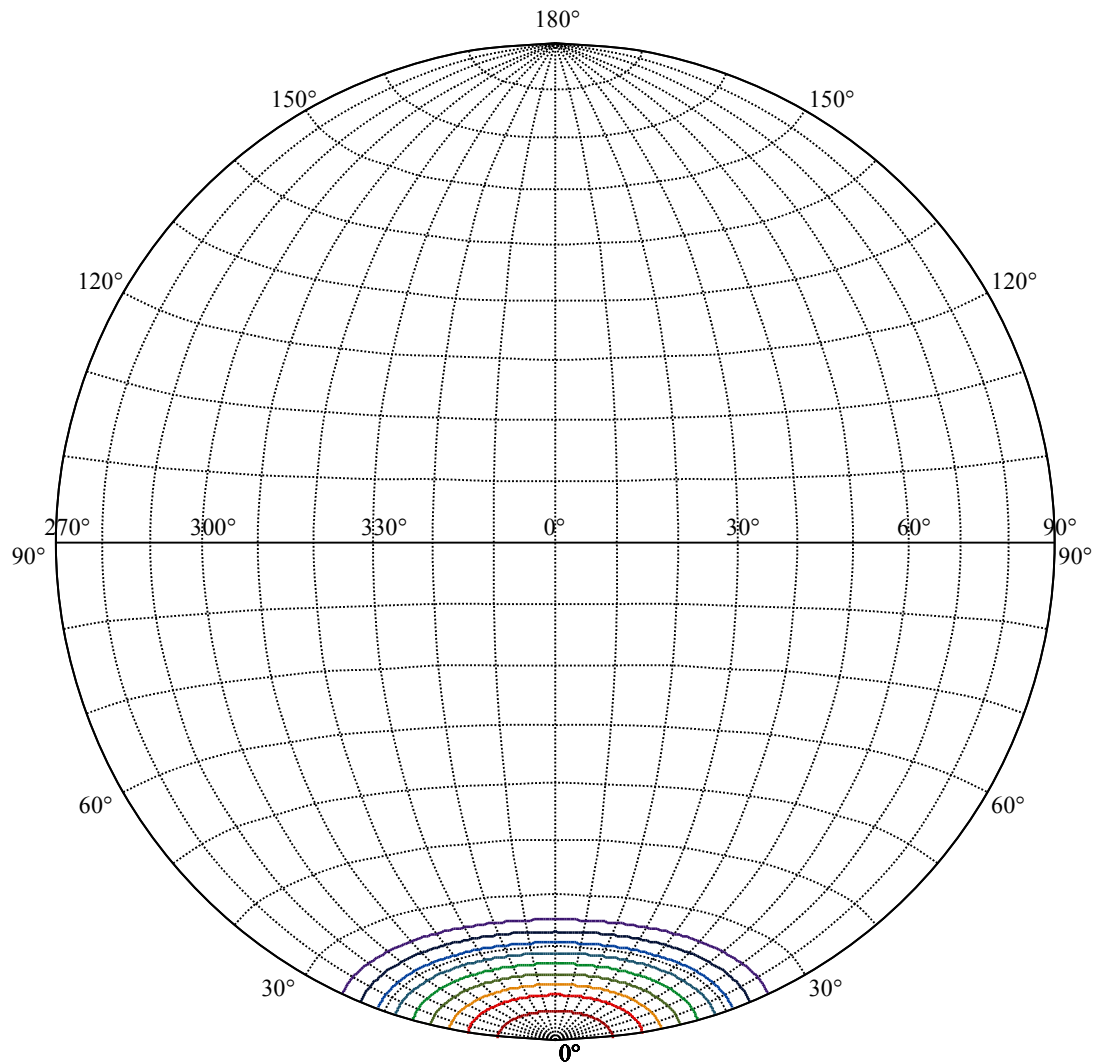
:C90/270Left:25.3 Right:25.3

Beam Angle(50%Imax):C0/180Left:16.6 Right:16.6

:C90/270Left:16.6 Right:16.6







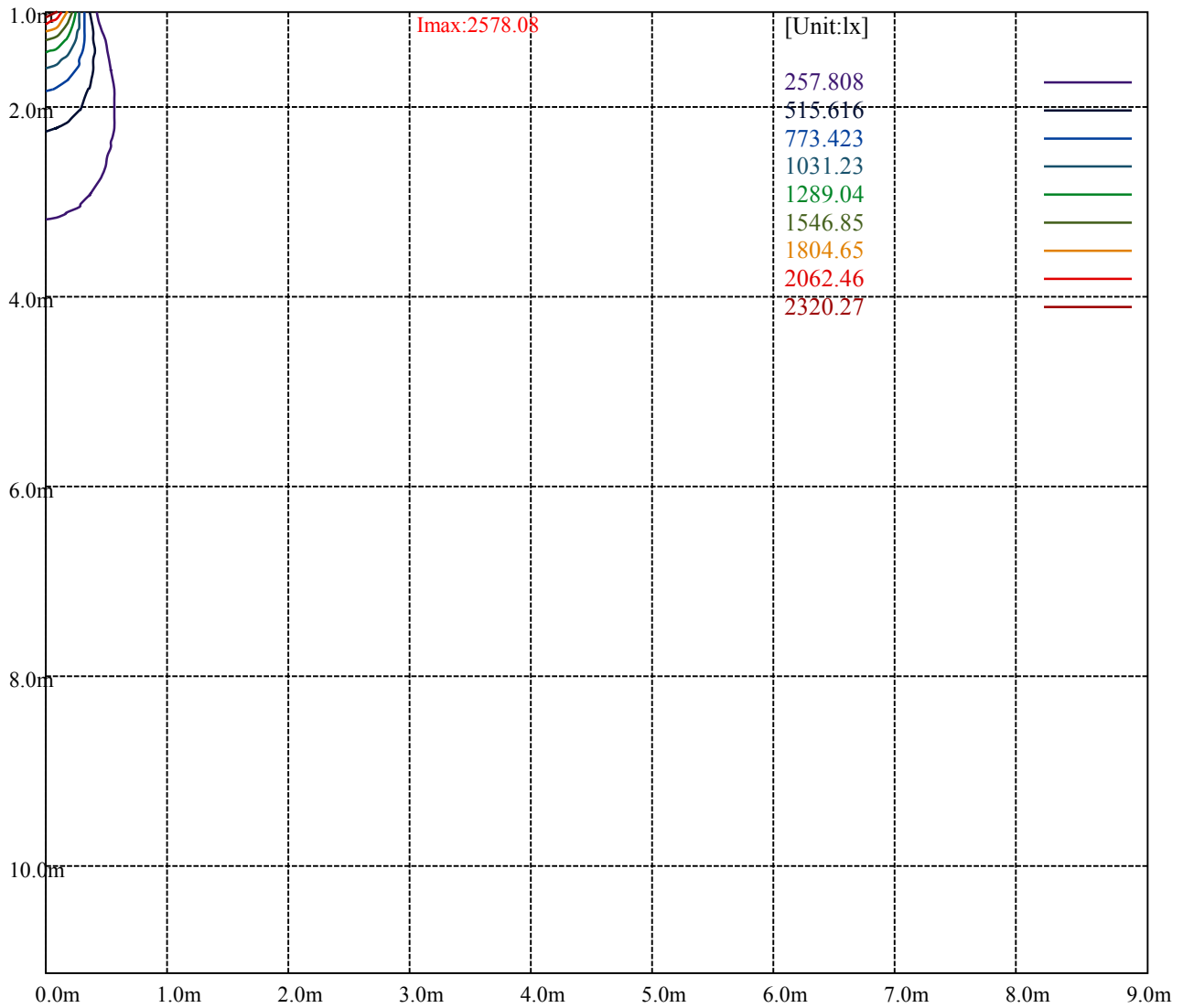
House

[Unit:cd]

Road

Imax:2578.08

(10%Imax)	257.808	—
(20%Imax)	515.616	—
(30%Imax)	773.423	—
(40%Imax)	1031.23	—
(50%Imax)	1289.04	—
(60%Imax)	1546.85	—
(70%Imax)	1804.65	—
(80%Imax)	2062.46	—
(90%Imax)	2320.27	—



Luminance Table

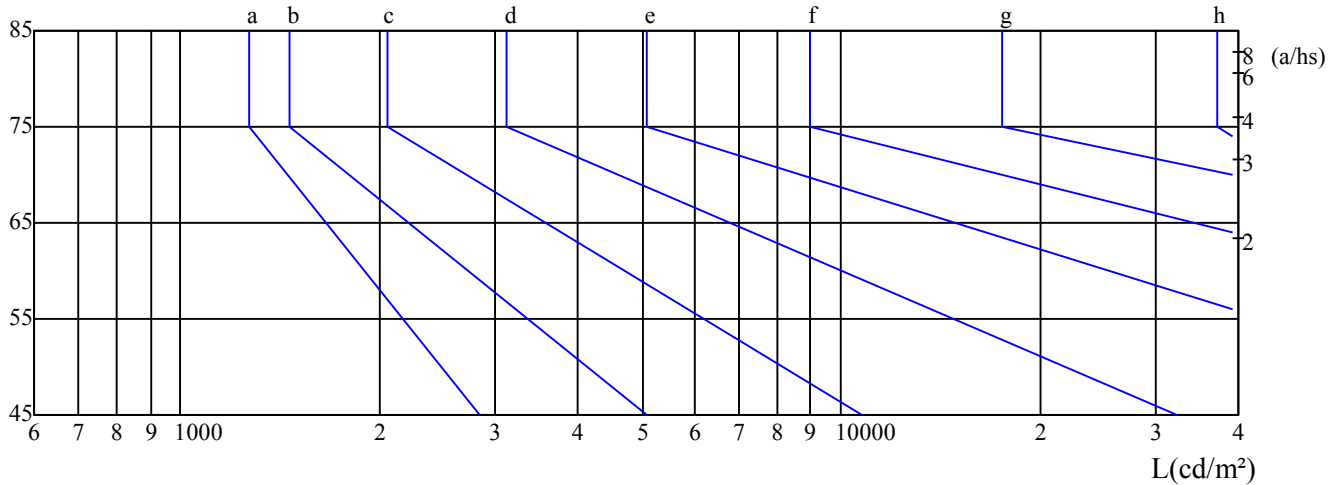
γ	45	50	55	60	65	70	75	80	85
C0	171	167	169	176	185	198	217	237	264
C45	184	182	186	196	210	228	254	285	329
C90	239	245	264	293	337	401	509	695	1145

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
362	362	362	576	576	576	1604	1604	1604

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

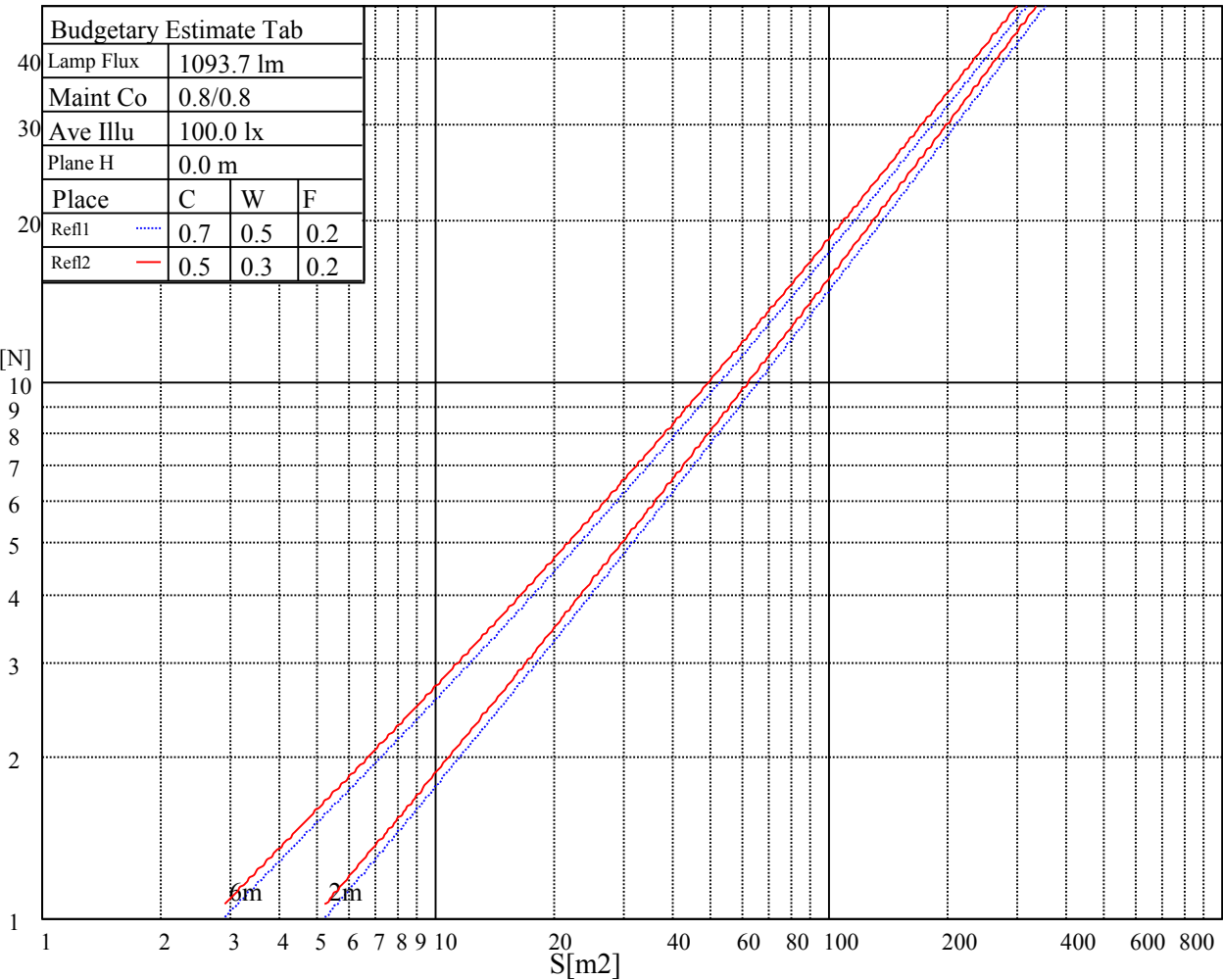
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

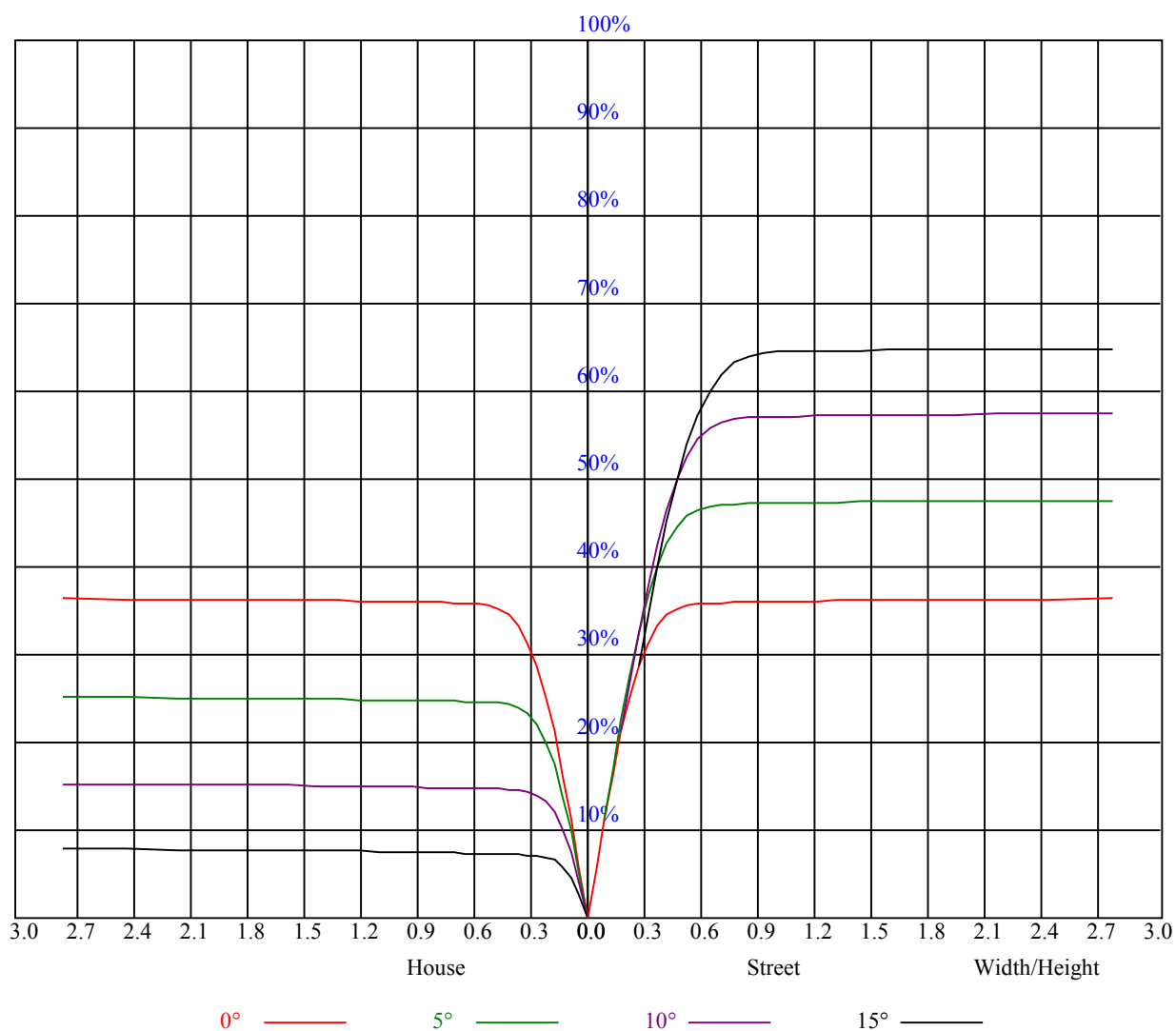
C0 ———

C45 ———

C90 ———



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	0.88	0.88	0.88	0.86	0.86	0.86	0.82	0.82	0.82	0.79	0.79	0.79	0.76	0.76	0.76	0.74
1	0.83	0.82	0.80	0.82	0.80	0.79	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.73	0.72	0.71
2	0.79	0.77	0.75	0.78	0.76	0.74	0.75	0.74	0.72	0.73	0.72	0.71	0.71	0.70	0.69	0.68
3	0.75	0.73	0.70	0.74	0.72	0.70	0.73	0.70	0.69	0.71	0.69	0.68	0.69	0.68	0.67	0.66
4	0.72	0.69	0.67	0.71	0.69	0.66	0.70	0.68	0.66	0.69	0.67	0.65	0.67	0.66	0.64	0.63
5	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.66	0.64	0.63	0.65	0.64	0.62	0.61
6	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.63	0.61	0.64	0.62	0.60	0.64	0.62	0.60	0.59
7	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.62	0.60	0.58	0.62	0.60	0.58	0.57
8	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.61	0.58	0.56	0.60	0.58	0.56	0.55
9	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.57	0.55	0.59	0.56	0.55	0.58	0.56	0.54	0.54
10	0.58	0.55	0.53	0.58	0.55	0.53	0.58	0.55	0.53	0.57	0.55	0.53	0.57	0.54	0.53	0.52



Nata 1-1007-M

Intensity data(cd)

Appendix Page: 14 Total:14

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2565.56	2556.56	2266.31	1835.44	1207.13	475.31	75.71	9.28	5.68
45.0	2587.50	2439.00	2096.44	1554.75	919.69	289.13	27.06	7.03	5.23
90.0	2571.75	2372.63	1927.13	1095.41	632.76	128.81	13.56	5.91	4.89
135.0	2587.50	2370.38	1994.63	1385.44	695.25	288.00	13.89	5.79	4.84
180.0	2565.56	2312.44	1859.63	1108.97	572.68	74.19	10.52	5.40	4.61
225.0	2587.50	2456.44	2063.81	1478.81	832.33	191.31	16.99	6.41	4.89
270.0	2571.75	2512.13	2202.75	1734.75	1071.56	367.31	41.46	7.71	5.23
315.0	2587.50	2507.63	2192.63	1683.56	1020.77	353.98	40.73	7.43	5.12
360.0	2565.56	2556.56	2266.31	1835.44	1207.13	475.31	75.71	9.28	5.68
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	4.73	4.33	4.16	4.05	3.94	3.83	3.77	3.77	3.66
45.0	4.61	4.33	4.16	4.11	4.05	3.99	3.94	3.71	3.54
90.0	4.44	4.22	4.16	4.05	3.99	3.94	3.88	3.60	3.49
135.0	4.39	4.16	3.99	3.88	3.83	3.71	3.71	3.66	3.60
180.0	4.28	4.11	3.99	3.94	3.83	3.77	3.77	3.71	3.60
225.0	4.39	4.16	3.99	3.94	3.94	3.94	3.94	3.77	3.60
270.0	4.56	4.22	4.11	4.05	3.99	3.94	3.88	3.83	3.60
315.0	4.44	4.16	3.99	3.88	3.83	3.77	3.71	3.66	3.60
360.0	4.73	4.33	4.16	4.05	3.94	3.83	3.77	3.77	3.66
C/γ(°)	90.0								
0.0	3.54								
45.0	3.49								
90.0	3.43								
135.0	3.49								
180.0	3.60								
225.0	3.49								
270.0	3.49								
315.0	3.49								
360.0	3.54								