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## Nata

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LumCAT: 1-1063-N	
Luminaire: 92.70.246.00	
Report No: 210709-B001	Voltage(V): 36.0100
Test No: 210709-C001	Current(A): 0.5100
LampCAT: Fortimo LED SLM 1204 G7N	Power (W): 18.3650
Lamp flux(lm): 2429.4	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

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## Photometric Results

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Lumens(lm): 1920.42  
Efficiency(%): 79.05%  
Lumens(lm)/Power(W): 104.57  
Central intensity(cd): 3727.828  
Maximum intensity(cd): 3727.828  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=43.2  
                                  [C90/270]Total=43.2  
Field angle(10%Imax): [C0/180]Total=64.1  
                                  [C90/270]Total=64.1  
Maximum s/h(1/2): C0\_180=0.71 C90\_270=0.71  
Maximum s/h(1/4): C0\_180=0.66 C90\_270=0.66  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 79.05%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.828%

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Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2021/7/09  
Humidity(%): 65.0%

Operator: NT07  
Distance(m): 7.50

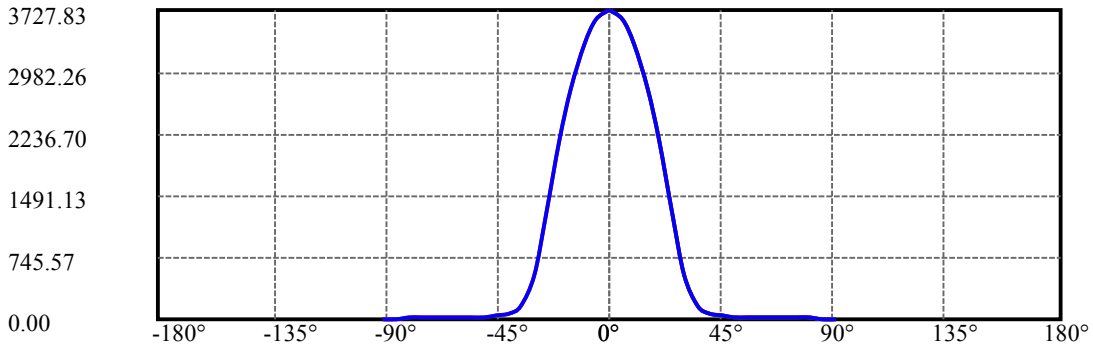
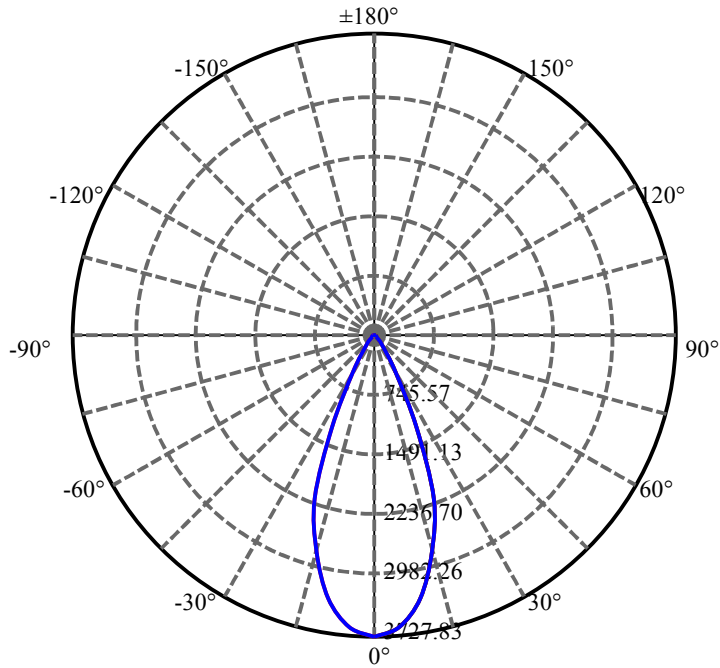
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3727.828	0.000	0	.000%	.000%
5.0	3615.750	87.790	87.79	3.614%	4.571%
10.0	3305.742	247.604	335.394	10.192%	17.465%
15.0	2781.000	361.061	696.455	14.862%	36.266%
20.0	2155.781	406.860	1103.316	16.747%	57.452%
25.0	1252.751	357.492	1460.808	14.715%	76.067%
30.0	529.193	225.506	1686.314	9.282%	87.809%
35.0	151.088	100.176	1786.49	4.123%	93.026%
40.0	59.822	35.189	1821.679	1.448%	94.858%
45.0	41.998	18.853	1840.532	.776%	95.840%
50.0	32.449	15.043	1855.575	.619%	96.623%
55.0	25.355	12.568	1868.143	.517%	97.278%
60.0	20.412	10.579	1878.722	.435%	97.828%
65.0	16.692	9.020	1887.742	.371%	98.298%
70.0	14.604	7.924	1895.666	.326%	98.711%
75.0	13.247	7.280	1902.946	.300%	99.090%
80.0	11.728	6.683	1909.629	.275%	99.438%
85.0	9.724	5.829	1915.458	.240%	99.741%
90.0	8.416	4.967	1920.425	.204%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1686.31	69.41%	87.81%
0-40	1821.68	74.98%	94.86%
0-60	1878.72	77.33%	97.83%
0-90	1915.46	78.84%	99.74%
0-120	1915.46	78.84%	99.74%
0-180	1920.42	79.05%	100.00%
60-90	47.31	1.95%	2.46%
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%
0-26.67	1536.34	63.24%	80.00%

ZONAL LUMEN SUMMARY

0-10	335.39
10-20	767.92
20-30	583.00
30-40	135.36
40-50	33.90
50-60	23.15
60-70	16.94
70-80	13.96
80-90	5.83
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: ———

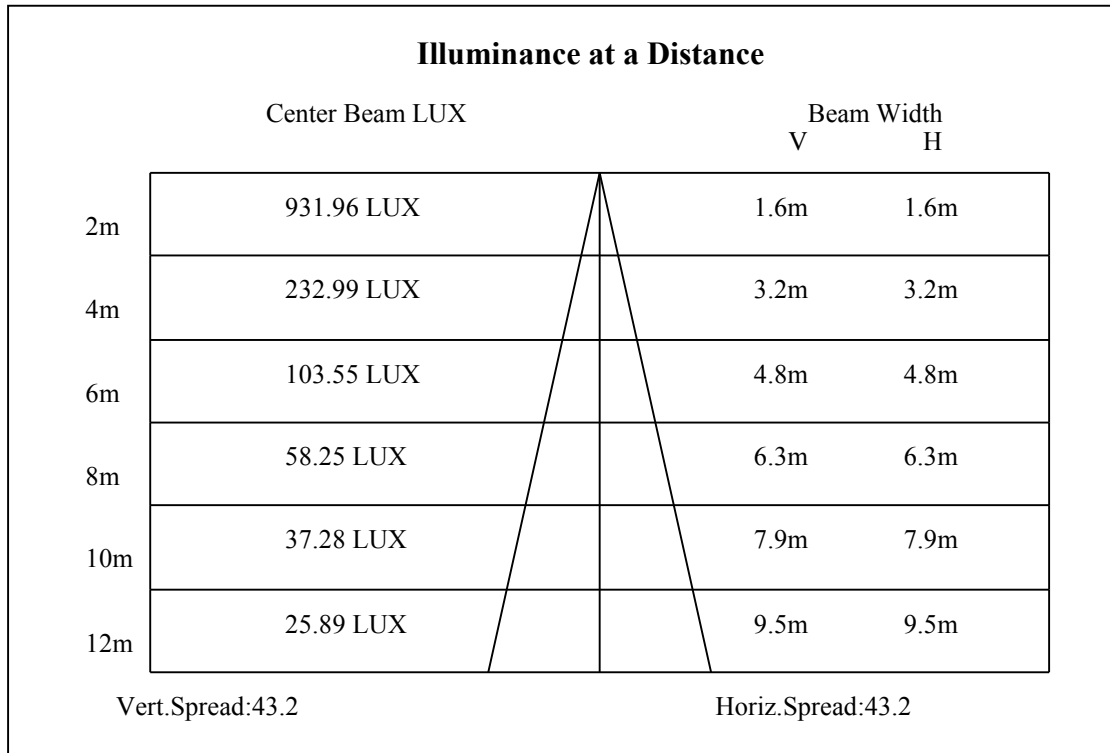
C90/C270: ———

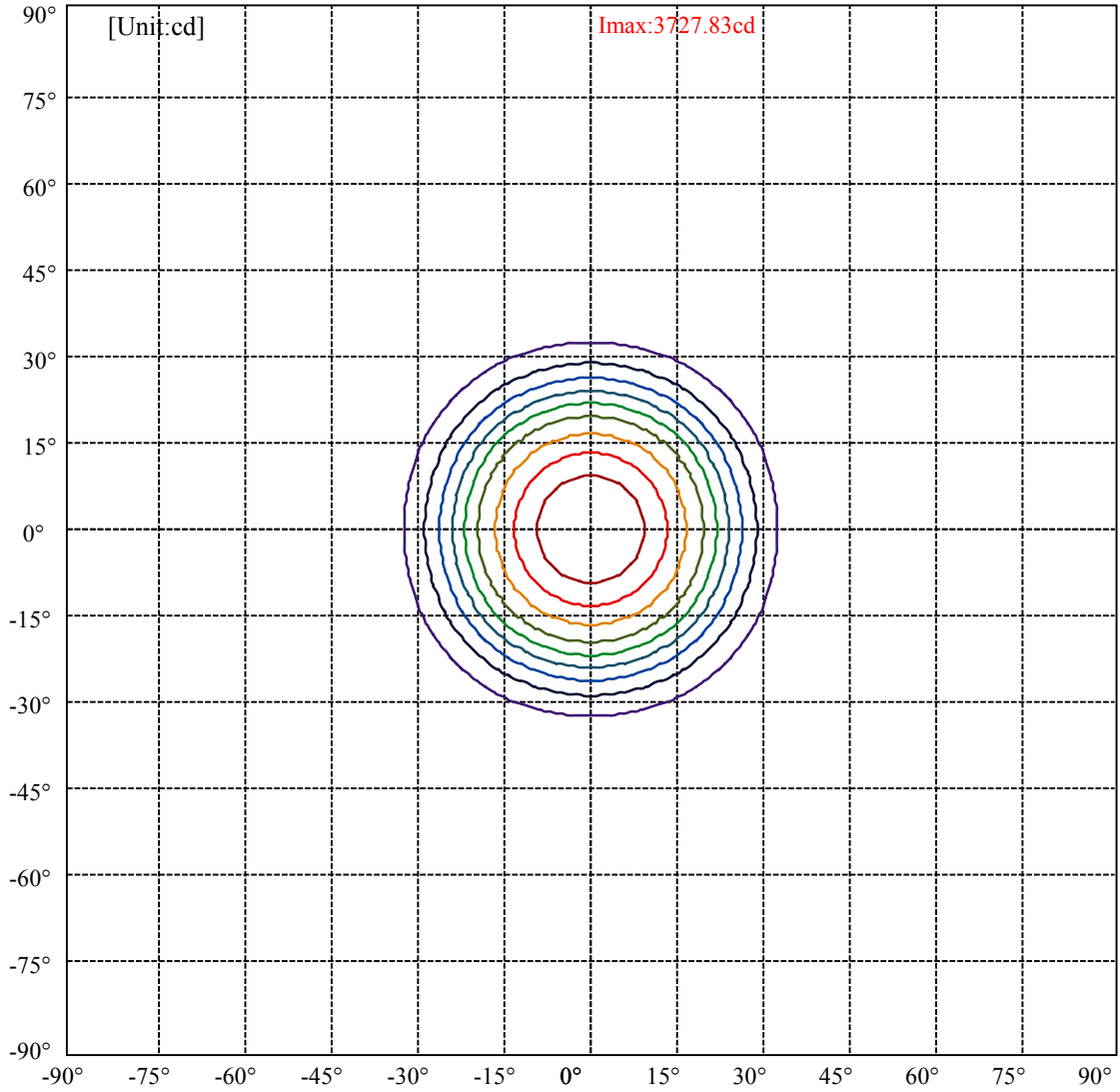
Field angle(10%Imax):C0/180Left:32.1 Right:32.1

:C90/270Left:32.1 Right:32.1

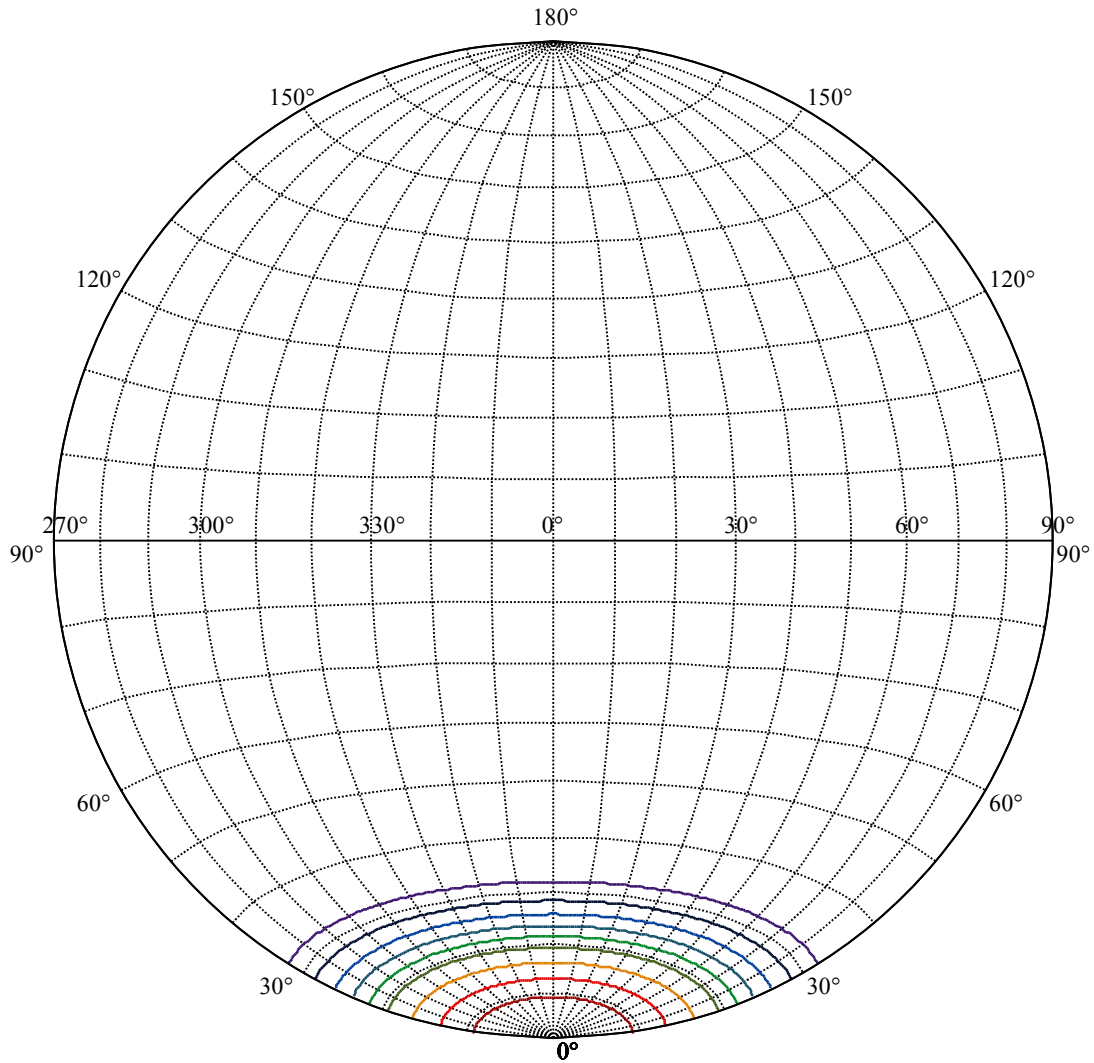
Beam Angle(50%Imax):C0/180Left:21.6 Right:21.6

:C90/270Left:21.6 Right:21.6





(10%Imax) 372.783	—
(20%Imax) 745.566	—
(30%Imax) 1118.35	—
(40%Imax) 1491.13	—
(50%Imax) 1863.91	—
(60%Imax) 2236.7	—
(70%Imax) 2609.48	—
(80%Imax) 2982.26	—
(90%Imax) 3355.05	—



House

[Unit:cd]

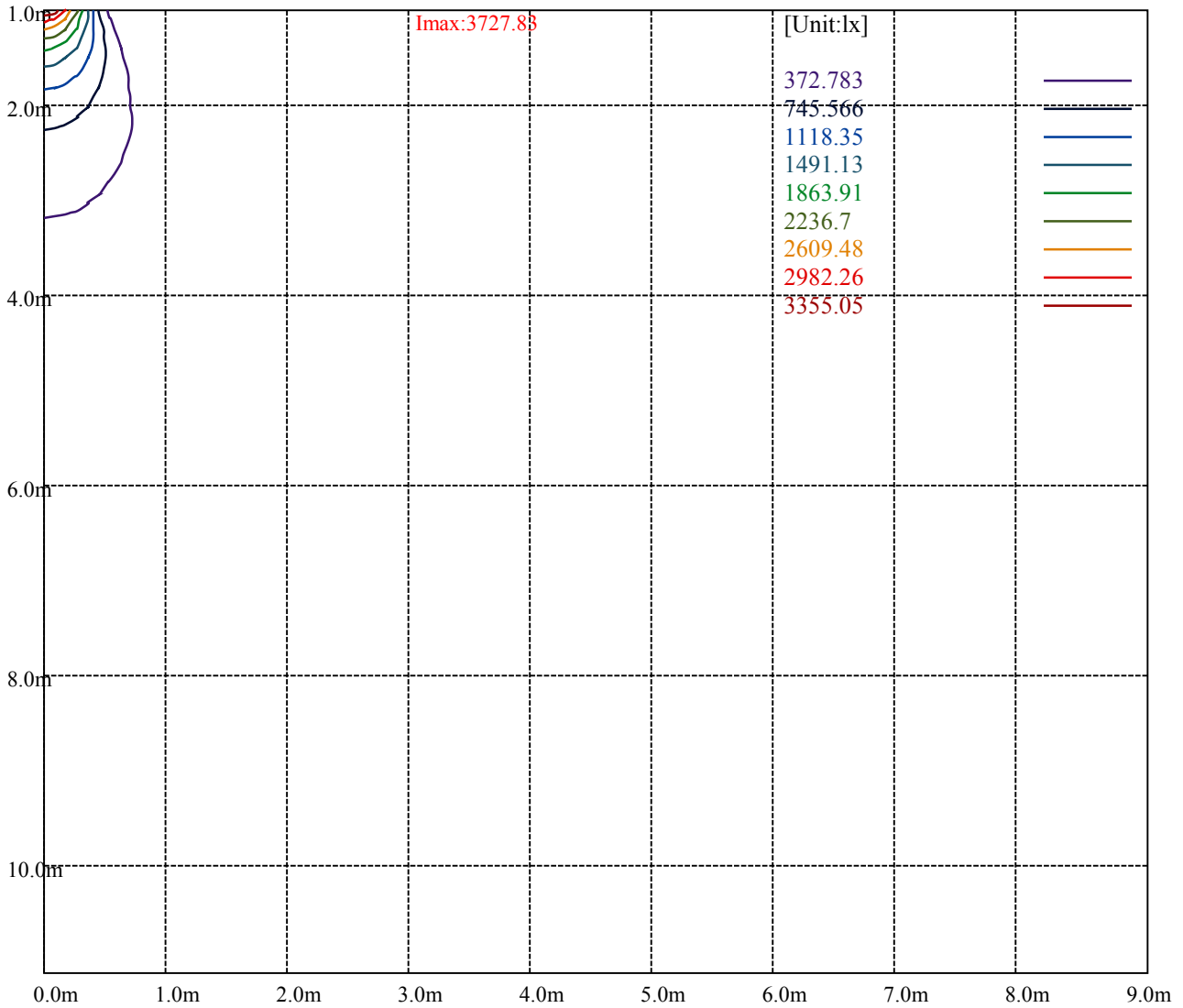
Road

**Imax:3727.83**

(10%Imax)	372.783	—
(20%Imax)	745.566	—
(30%Imax)	1118.35	—
(40%Imax)	1491.13	—
(50%Imax)	1863.91	—
(60%Imax)	2236.7	—
(70%Imax)	2609.48	—
(80%Imax)	2982.26	—
(90%Imax)	3355.05	—







Luminance Table

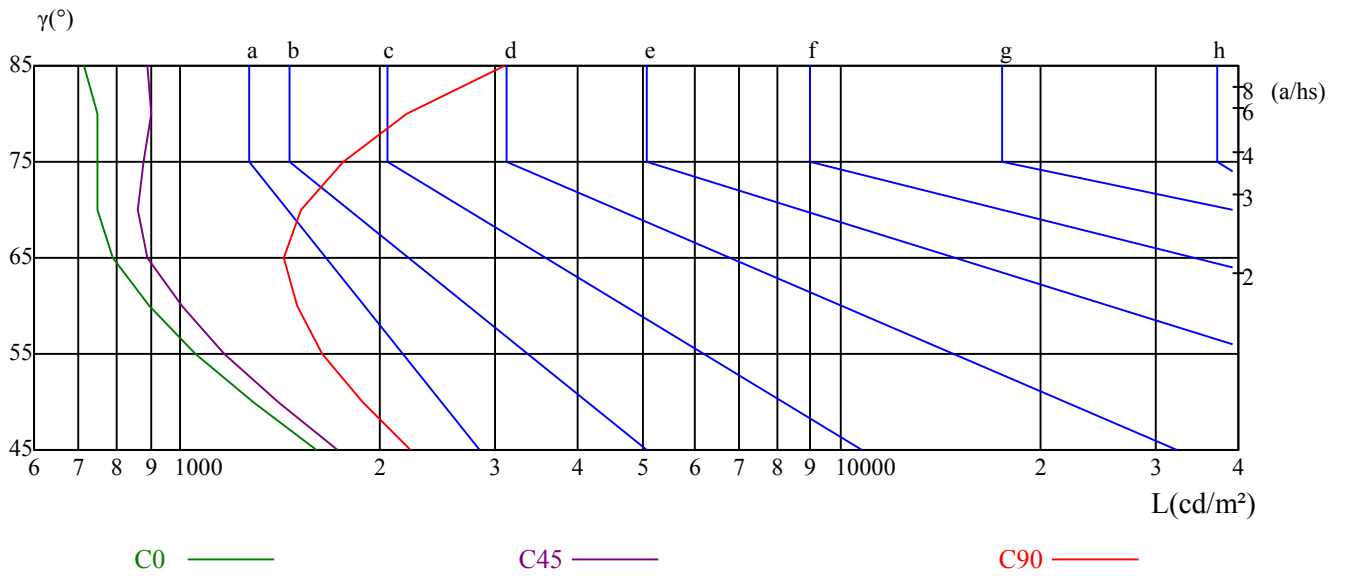
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1603	1287	1054	899	788	749	751	748	715
C45	1729	1402	1161	1003	892	862	881	901	892
C90	2237	1889	1641	1500	1432	1518	1764	2196	3105

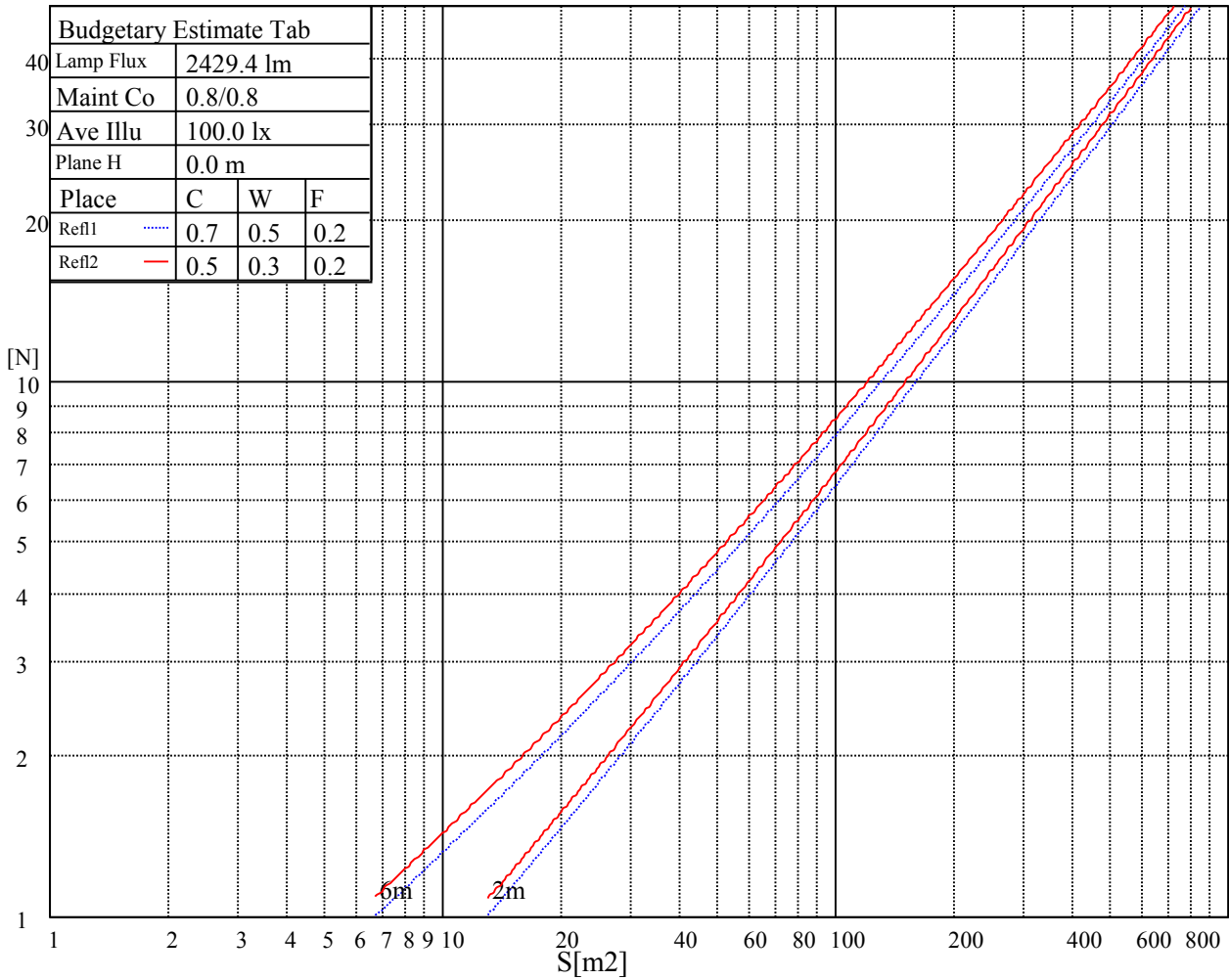
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1540	1540	1540	1995	1995	1995	4350	4350	4350

Glare Table

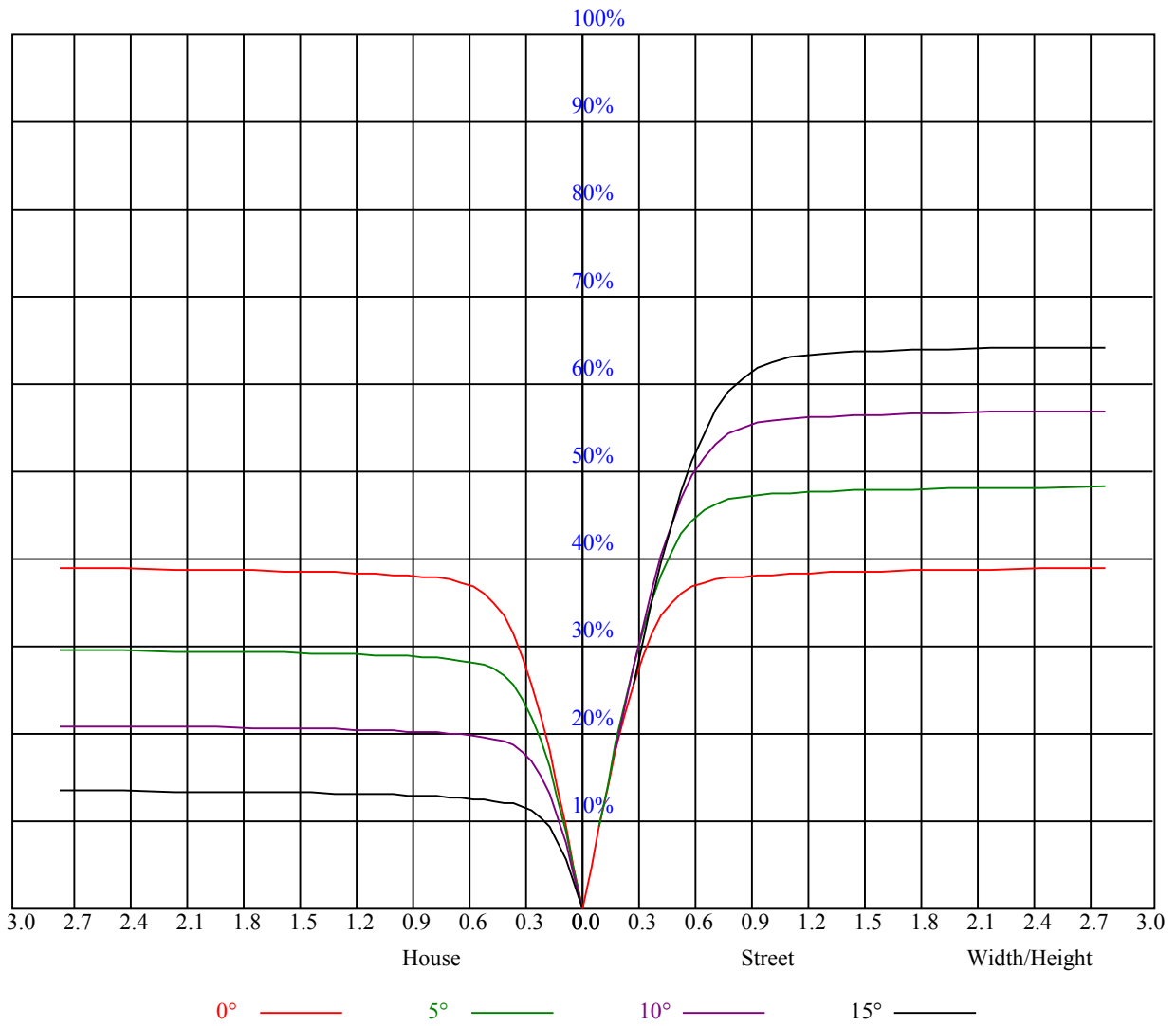
Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.94	0.94	0.94	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.79
1	0.88	0.86	0.84	0.86	0.85	0.83	0.83	0.82	0.80	0.80	0.79	0.78	0.77	0.77	0.76	0.74
2	0.83	0.80	0.77	0.81	0.79	0.76	0.79	0.77	0.75	0.76	0.75	0.73	0.74	0.73	0.72	0.70
3	0.78	0.74	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.71	0.69	0.68	0.67
4	0.74	0.70	0.67	0.73	0.69	0.67	0.71	0.68	0.66	0.70	0.67	0.65	0.68	0.66	0.64	0.63
5	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.60
6	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.57
7	0.64	0.59	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.55
8	0.61	0.57	0.54	0.60	0.56	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.58	0.55	0.53	0.52
9	0.58	0.54	0.51	0.58	0.54	0.51	0.57	0.54	0.51	0.56	0.53	0.51	0.56	0.53	0.51	0.50
10	0.56	0.52	0.49	0.55	0.52	0.49	0.55	0.51	0.49	0.54	0.51	0.49	0.54	0.51	0.49	0.48



Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	3722.63	3680.44	3435.75	2962.69	2440.13	1604.81	763.31	310.50	71.21
45.0	3737.25	3618.00	3312.00	2782.13	2180.81	1333.69	519.19	102.99	58.16
90.0	3717.00	3522.38	3183.75	2621.81	1902.38	1088.27	329.85	78.36	51.47
135.0	3734.44	3585.94	3259.13	2698.31	2009.25	1200.94	422.44	88.71	56.70
180.0	3722.63	3543.19	3152.25	2563.31	1870.88	1013.40	287.21	78.86	50.51
225.0	3737.25	3639.38	3314.25	2768.63	2167.88	1106.33	497.36	110.08	58.61
270.0	3717.00	3682.13	3426.19	2970.56	2386.69	1567.69	759.94	310.50	68.63
315.0	3734.44	3654.56	3362.63	2880.56	2288.25	1106.89	654.24	128.70	63.28
360.0	3722.63	3680.44	3435.75	2962.69	2440.13	1604.81	763.31	310.50	71.21
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	47.42	35.55	27.84	22.11	17.66	15.24	13.67	12.04	9.79
45.0	41.34	32.40	25.14	20.14	16.59	14.40	13.05	11.31	9.28
90.0	37.91	29.76	23.34	19.01	15.69	14.01	12.77	10.86	8.94
135.0	39.99	31.05	24.30	19.80	16.37	14.57	13.44	12.77	9.11
180.0	37.52	30.09	23.74	19.18	16.03	14.29	12.88	10.97	9.06
225.0	41.06	32.12	25.20	20.14	16.54	14.46	13.16	11.42	9.28
270.0	46.58	34.93	26.94	21.66	17.33	14.91	13.50	11.87	9.62
315.0	44.16	33.69	26.33	21.26	17.33	14.96	13.50	12.60	12.71
360.0	47.42	35.55	27.84	22.11	17.66	15.24	13.67	12.04	9.79
C/ $\gamma$ (°)	90.0								
0.0	8.49								
45.0	8.33								
90.0	8.44								
135.0	8.38								
180.0	8.44								
225.0	8.33								
270.0	8.49								
315.0	8.44								
360.0	8.49								