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## Nata

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LumCAT: 4-2275-M	
Luminaire: 92.70.131.00	
Report No: GC20170617009	Voltage(V): 34.6000
Test No: NT-0010	Current(A): 0.5000
LampCAT: BRIDGELUX V13B	Power (W): 17.3000
Lamp flux(lm): 2579.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 2398.15  
Efficiency(%): 92.99%  
Lumens(lm)/Power(W): 138.62  
Central intensity(cd): 13181.880  
Maximum intensity(cd): 13181.880  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=17.9  
                                  [C90/270]Total=17.9  
Field angle(10%Imax): [C0/180]Total=38.3  
                                  [C90/270]Total=38.3  
Maximum s/h(1/2): C0\_180=0.31 C90\_270=0.31  
Maximum s/h(1/4): C0\_180=0.33 C90\_270=0.33  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 92.99%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.826%

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Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2017/6/17  
Humidity(%): 60.0%

Operator: NT07  
Distance(m): 7.42

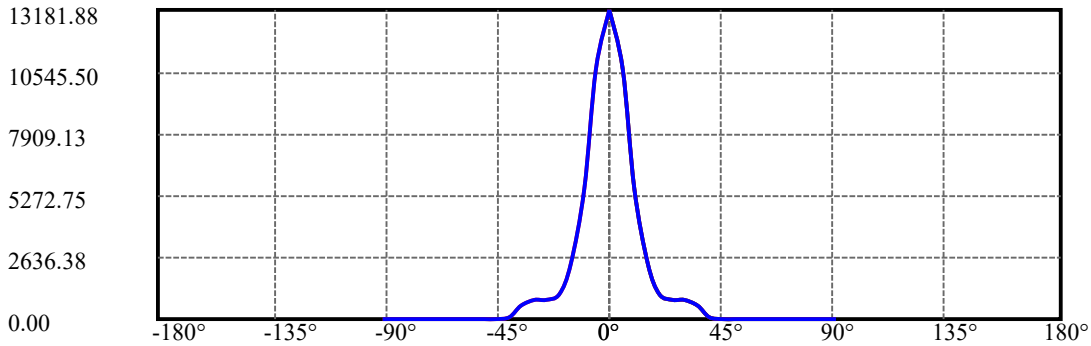
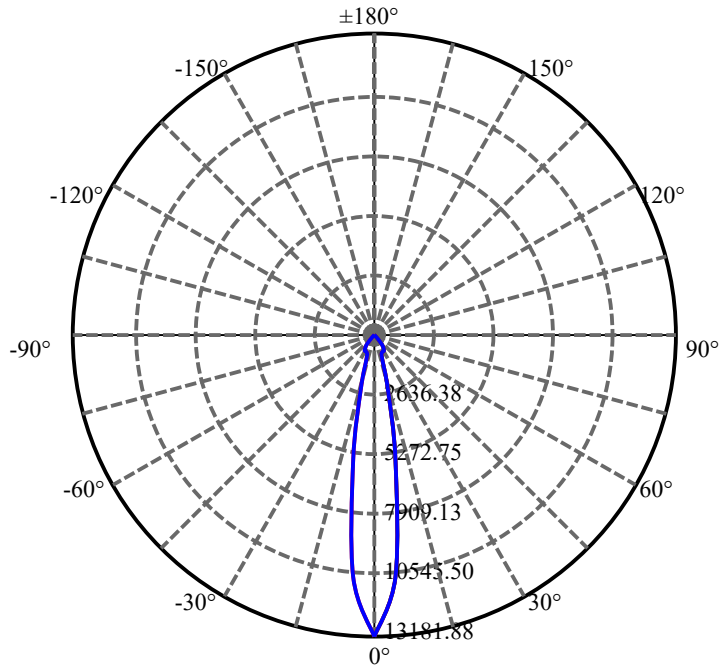
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	13181.879	0.000	0	.000%	.000%
5.0	10619.416	284.538	284.538	11.033%	11.865%
10.0	5535.715	577.920	862.458	22.409%	35.963%
15.0	2394.059	470.389	1332.846	18.239%	55.578%
20.0	1100.275	287.982	1620.829	11.166%	67.587%
25.0	853.670	204.933	1825.761	7.946%	76.132%
30.0	787.850	207.736	2033.497	8.055%	84.794%
35.0	545.891	196.403	2229.9	7.615%	92.984%
40.0	95.337	106.984	2336.884	4.148%	97.445%
45.0	11.576	19.796	2356.68	.768%	98.271%
50.0	10.440	4.449	2361.128	.172%	98.456%
55.0	9.828	4.407	2365.535	.171%	98.640%
60.0	9.463	4.459	2369.994	.173%	98.826%
65.0	9.201	4.537	2374.531	.176%	99.015%
70.0	9.022	4.614	2379.146	.179%	99.207%
75.0	8.912	4.688	2383.833	.182%	99.403%
80.0	8.830	4.747	2388.581	.184%	99.601%
85.0	8.768	4.782	2393.362	.185%	99.800%
90.0	8.733	4.792	2398.154	.186%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2033.50	78.85%	84.79%
0-40	2336.88	90.61%	97.45%
0-60	2369.99	91.90%	98.83%
0-90	2393.36	92.80%	99.80%
0-120	2393.36	92.80%	99.80%
0-180	2398.15	92.99%	100.00%
60-90	27.83	1.08%	1.16%
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%
0-27.23	1918.52	74.39%	80.00%

ZONAL LUMEN SUMMARY

0-10	862.46
10-20	758.37
20-30	412.67
30-40	303.39
40-50	24.24
50-60	8.87
60-70	9.15
70-80	9.44
80-90	4.78
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



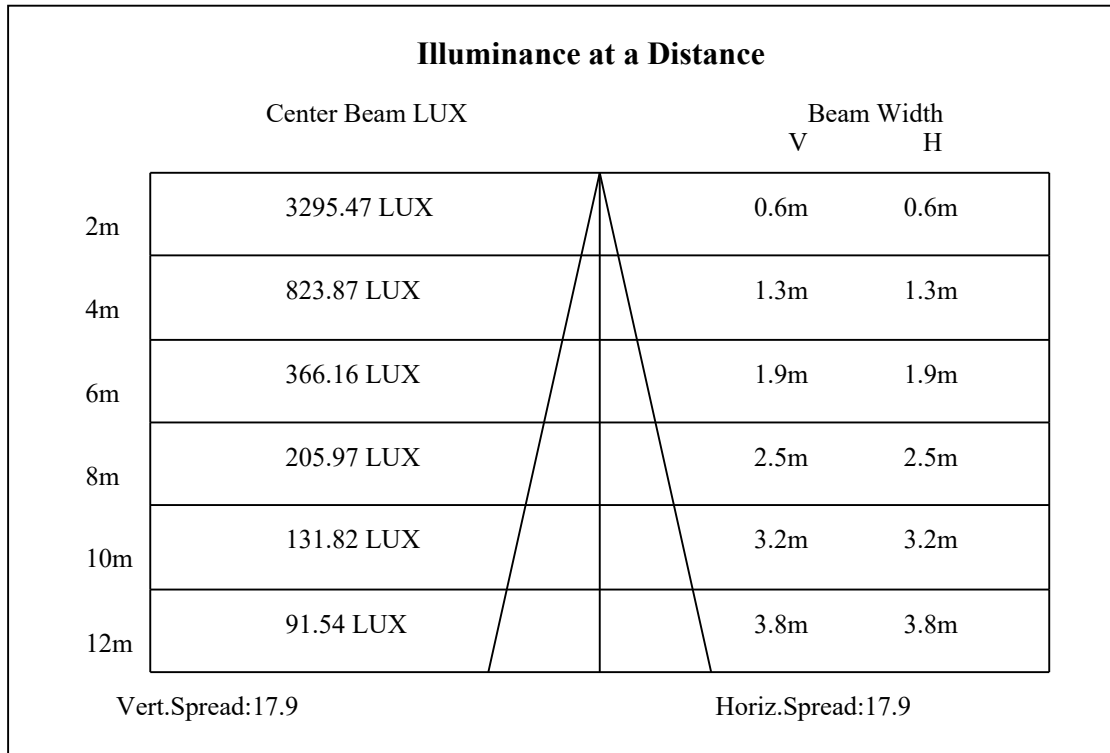
C0(Max): —————

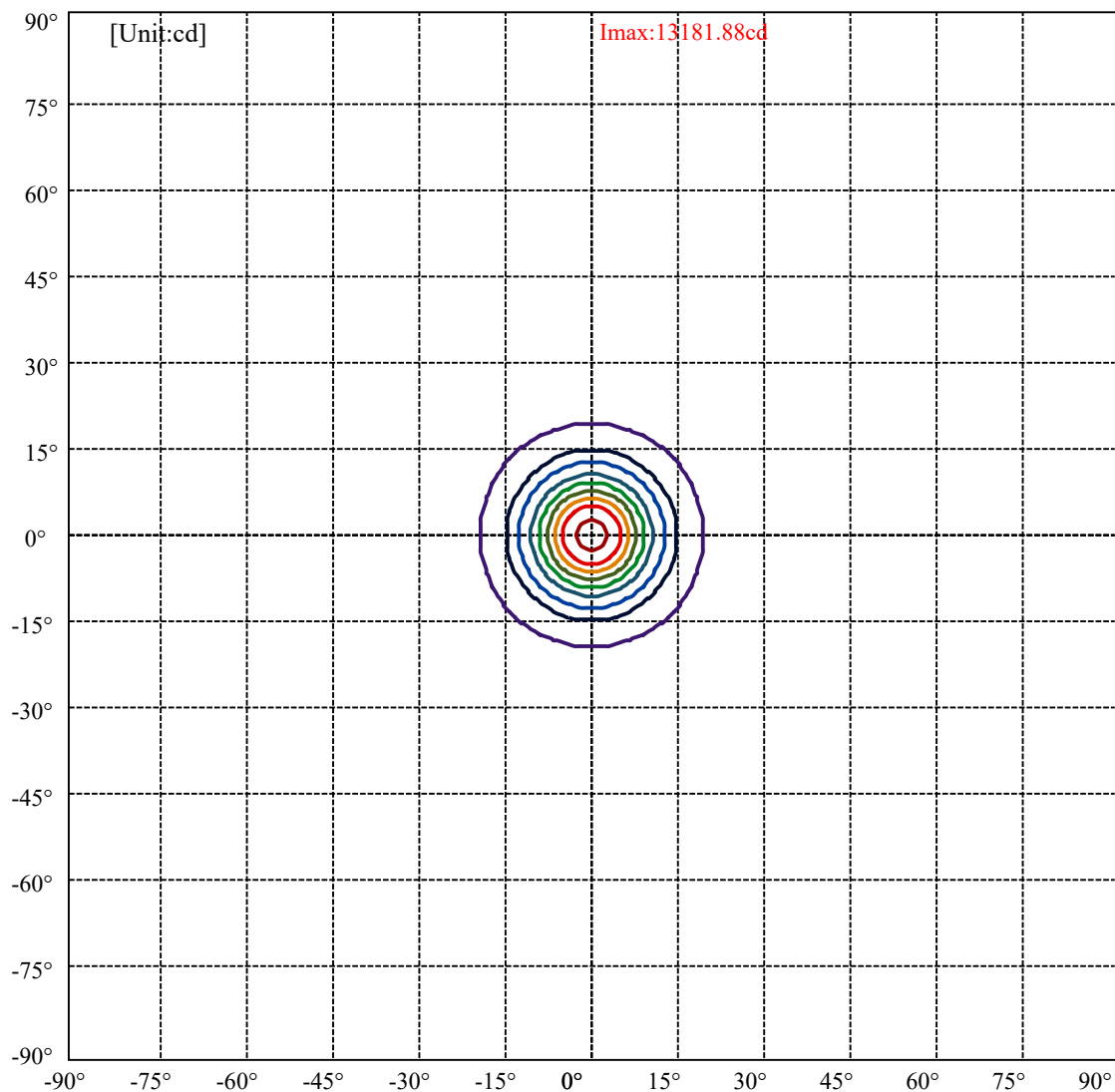
C0/C180: —————

C90/C270: —————

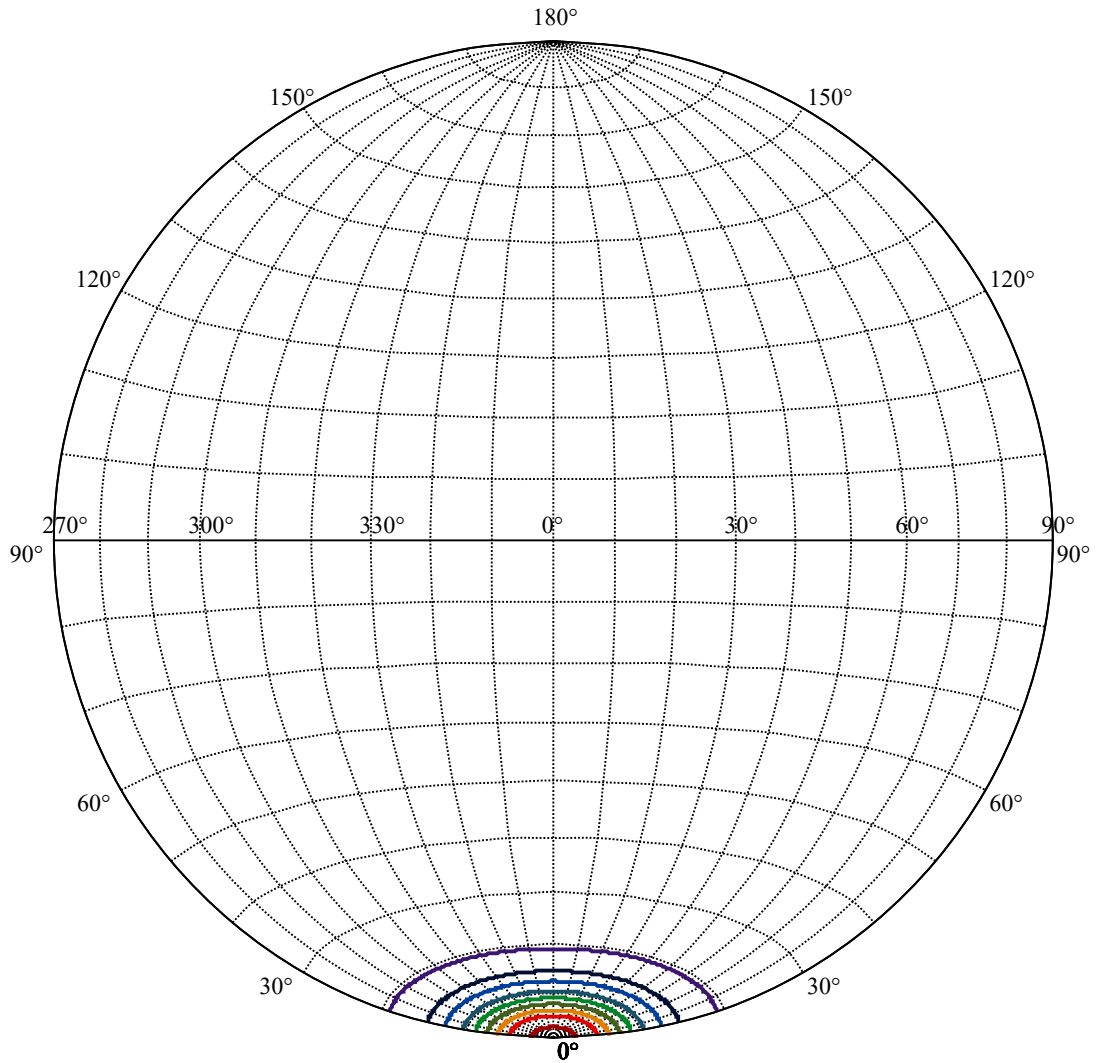
Field angle(10%Imax):C0/180Left:19.2 Right:19.2  
:C90/270Left:19.2 Right:19.2

Beam Angle(50%Imax):C0/180Left:9.0 Right:9.0  
:C90/270Left:9.0 Right:9.0





(10%I <sub>max</sub> ) 1318.19	—
(20%I <sub>max</sub> ) 2636.38	—
(30%I <sub>max</sub> ) 3954.56	—
(40%I <sub>max</sub> ) 5272.75	—
(50%I <sub>max</sub> ) 6590.94	—
(60%I <sub>max</sub> ) 7909.13	—
(70%I <sub>max</sub> ) 9227.31	—
(80%I <sub>max</sub> ) 10545.5	—
(90%I <sub>max</sub> ) 11863.7	—



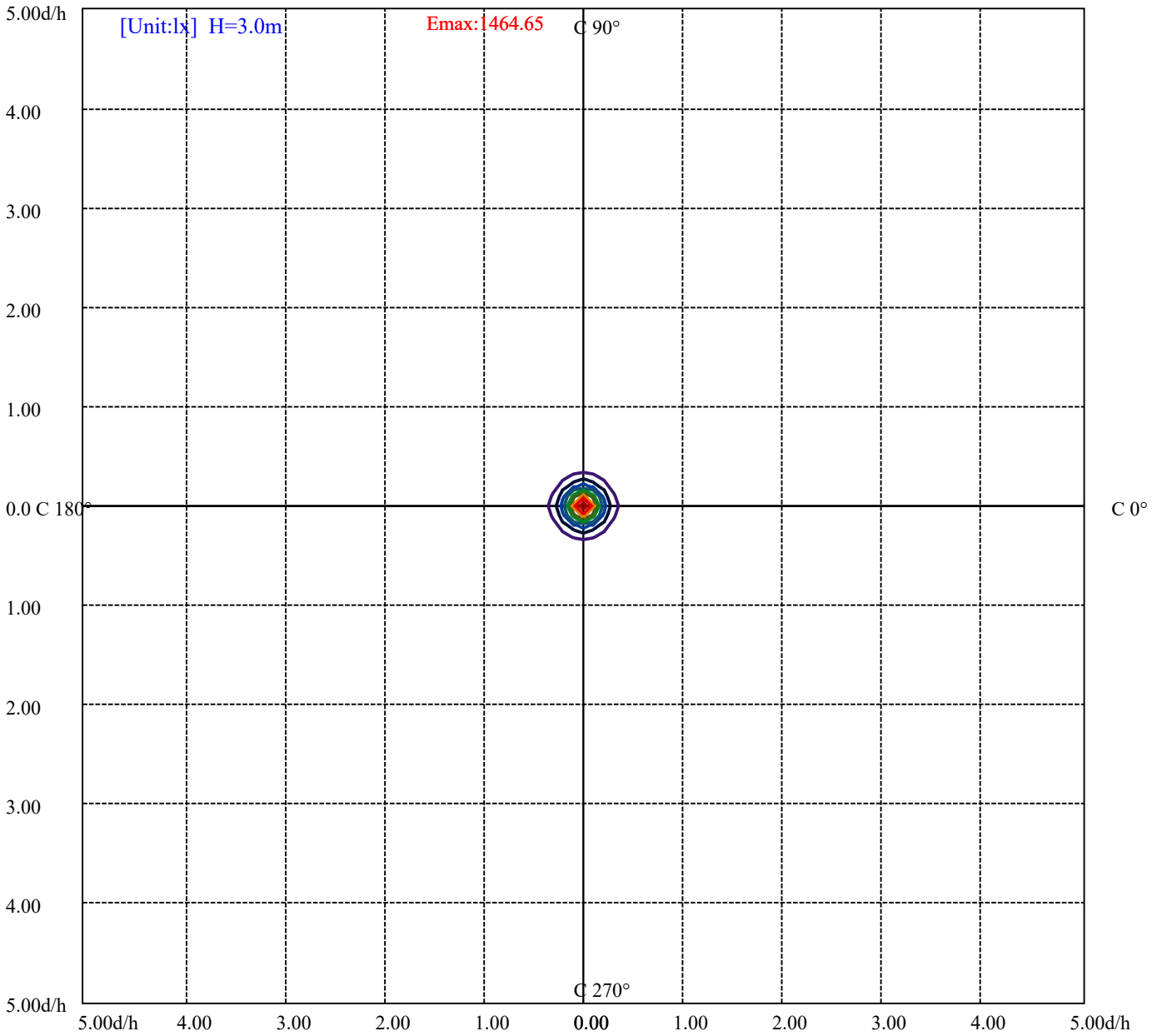
House

[Unit:cd]

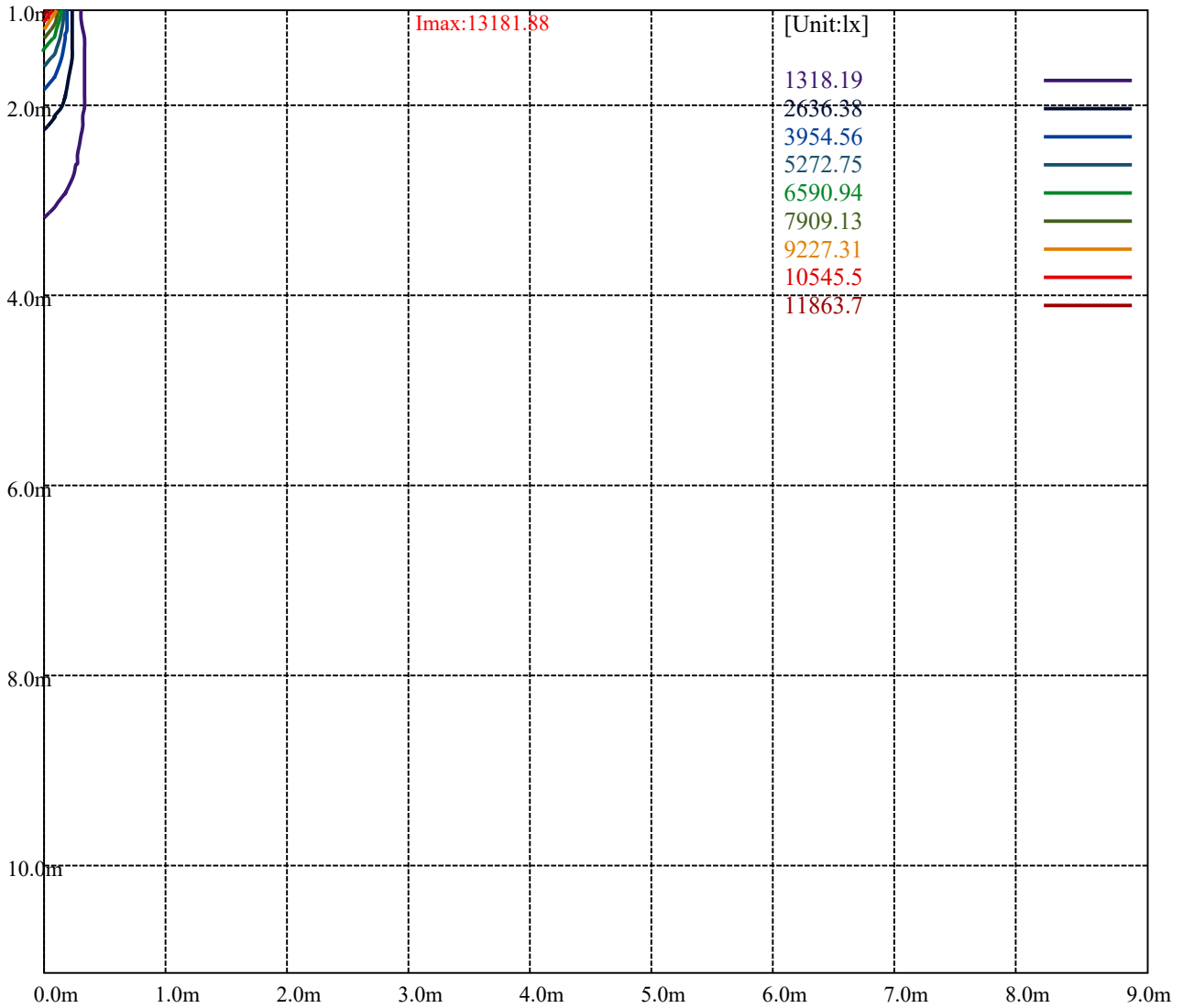
Road

**Imax:13181.88**

(10%Imax)	1318.19	—
(20%Imax)	2636.38	—
(30%Imax)	3954.56	—
(40%Imax)	5272.75	—
(50%Imax)	6590.94	—
(60%Imax)	7909.13	—
(70%Imax)	9227.31	—
(80%Imax)	10545.5	—
(90%Imax)	11863.7	—







Luminance Table

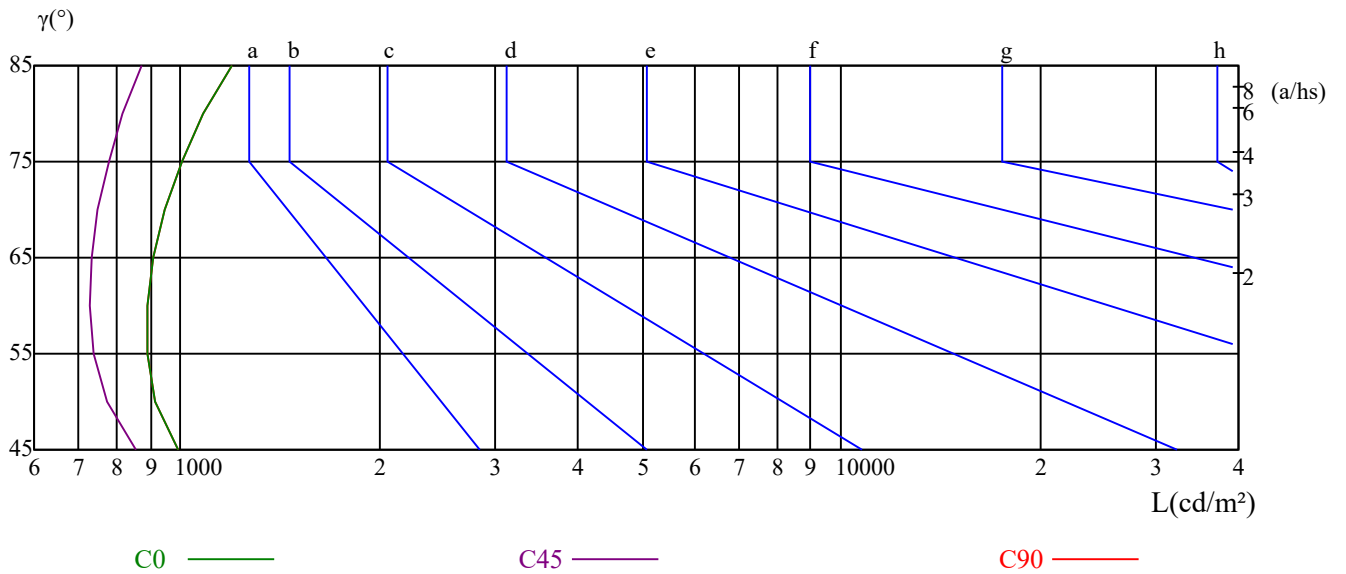
$\gamma$	45	50	55	60	65	70	75	80	85
C0	992	915	889	890	909	947	1005	1085	1193
C45	853	775	741	730	733	748	777	818	874
C90	992	915	889	890	909	947	1005	1085	1193

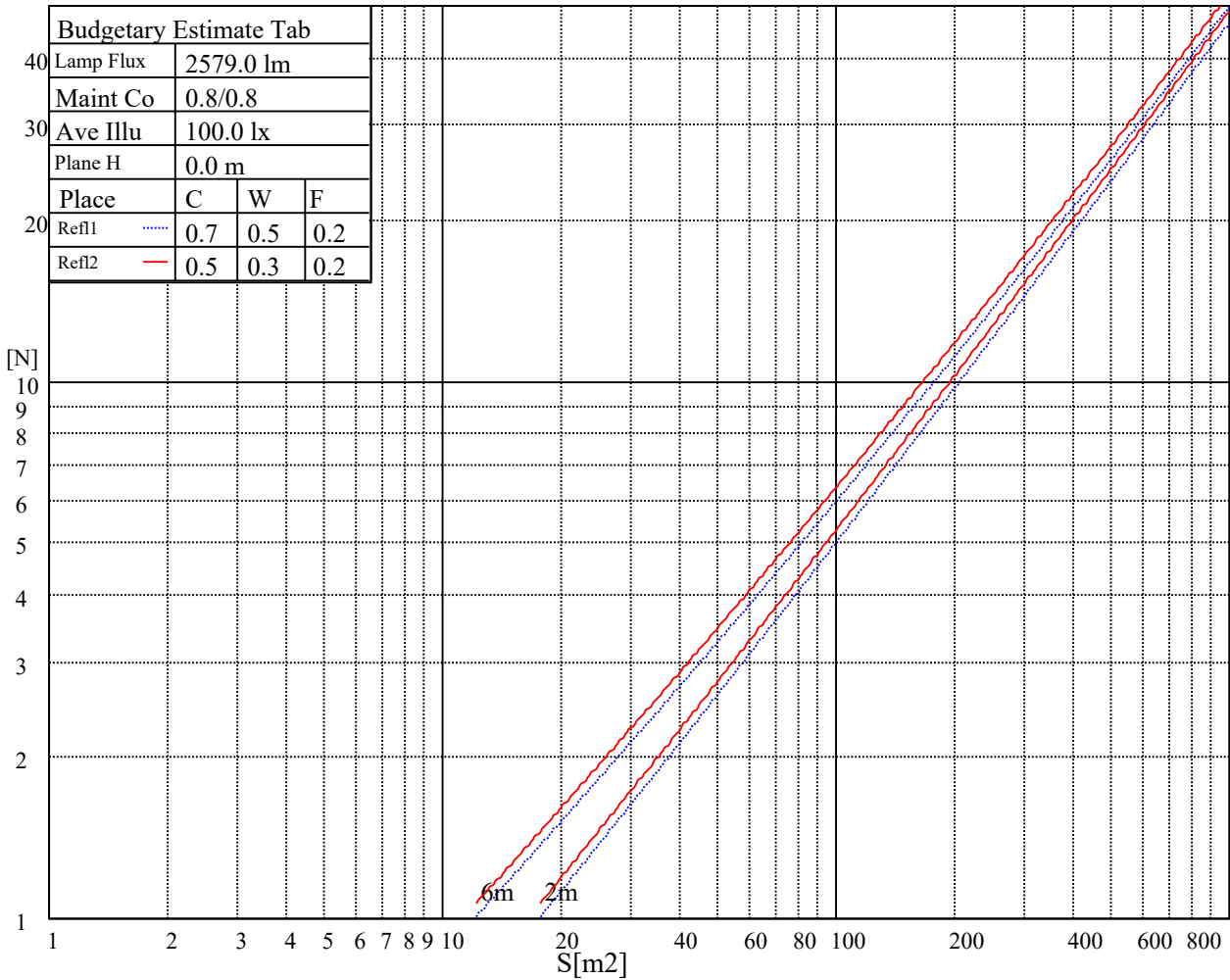
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2177	2177	2177	3443	3443	3443	10060	10060	10060

Glare Table

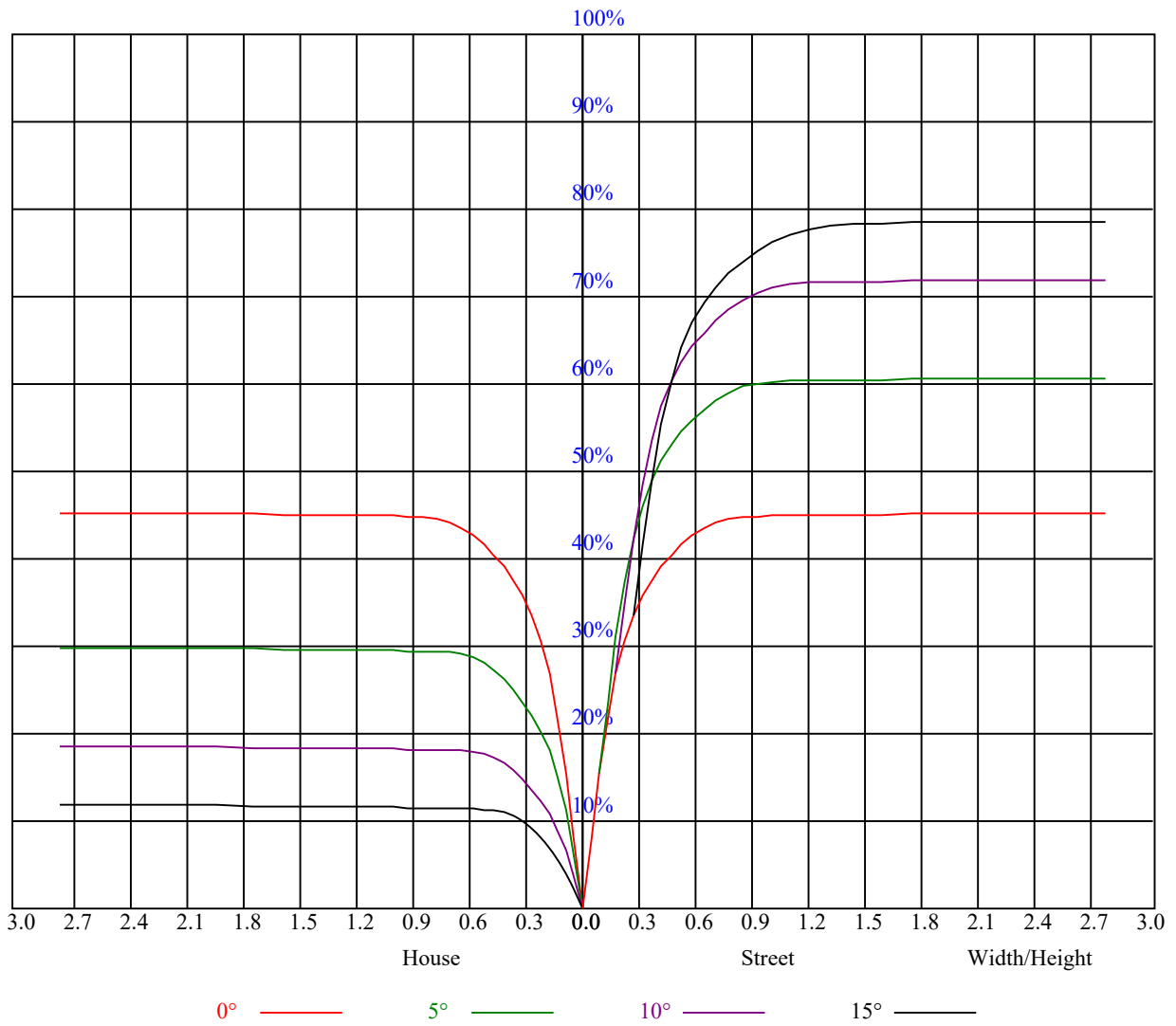
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.04	1.02	1.01	1.02	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89
2	0.99	0.96	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.87	0.93	0.89	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.86	0.84	0.83	0.82
4	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.83	0.80	0.84	0.81	0.80	0.78
5	0.86	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.81	0.79	0.77	0.75
6	0.83	0.79	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
7	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
8	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.68
9	0.74	0.70	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
10	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64



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	13020.84	11704.99	7129.80	2824.39	1313.65	899.07	818.14	716.83	286.84
45.0	13246.57	10983.75	5775.42	2846.42	1101.68	852.27	791.16	589.10	42.61
90.0	13213.54	9979.52	4745.31	1876.87	961.67	832.07	770.18	437.59	23.07
135.0	13246.57	10383.64	5197.32	2807.88	1041.12	845.67	785.65	535.15	26.92
180.0	13020.84	9280.31	4205.76	1726.57	948.24	831.85	770.73	351.15	21.36
225.0	13246.57	10520.73	5151.08	2056.36	1094.14	842.64	780.86	511.97	25.49
270.0	13213.54	11121.39	6436.09	2780.35	1259.69	870.99	797.77	635.90	296.75
315.0	13246.57	10981.00	5644.93	2233.64	1082.02	854.81	788.30	589.43	39.64
360.0	13020.84	11704.99	7129.80	2824.39	1313.65	899.07	818.14	716.83	286.84
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	13.38	10.68	9.91	9.52	9.19	9.08	8.92	8.86	8.75
45.0	11.40	10.46	9.91	9.52	9.25	9.08	8.92	8.92	8.81
90.0	11.12	10.35	9.80	9.41	9.25	8.97	8.86	8.75	8.75
135.0	11.07	10.41	9.74	9.47	9.19	9.03	8.92	8.81	8.75
180.0	10.90	10.13	9.63	9.30	9.14	8.97	8.86	8.81	8.75
225.0	11.40	10.46	9.80	9.52	9.19	9.08	8.97	8.86	8.92
270.0	11.89	10.63	10.02	9.52	9.25	9.03	8.97	8.81	8.70
315.0	11.45	10.41	9.80	9.41	9.14	8.92	8.86	8.81	8.70
360.0	13.38	10.68	9.91	9.52	9.19	9.08	8.92	8.86	8.75
C/γ(°)	90.0								
0.0	8.81								
45.0	8.70								
90.0	8.75								
135.0	8.70								
180.0	8.70								
225.0	8.75								
270.0	8.75								
315.0	8.70								
360.0	8.81								