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## Nata

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LumCAT: 6-0845-M	
Luminaire: LM07126080EM	
Report No: 220629-B003	Voltage(V): 40.2600
Test No: 220629-C003	Current(A): 0.3510
LampCAT: LUMILEDS 5050	Power (W): 14.1310
Lamp flux(lm): 2227.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1616.32  
Efficiency(%): 72.58%  
Lumens(lm)/Power(W): 114.38  
Central intensity(cd): 847.177  
Maximum intensity(cd): 869.942  
Angle of maximum intensity: C=90.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=83.8  
                                  [C90/270]Total=86.5  
Field angle(10%Imax): [C0/180]Total=115.0  
                                  [C90/270]Total=115.5  
Maximum s/h(1/2): C0\_180=1.21 C90\_270=1.24  
Maximum s/h(1/4): C0\_180=1.17 C90\_270=1.25  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 72.58%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 94.809%

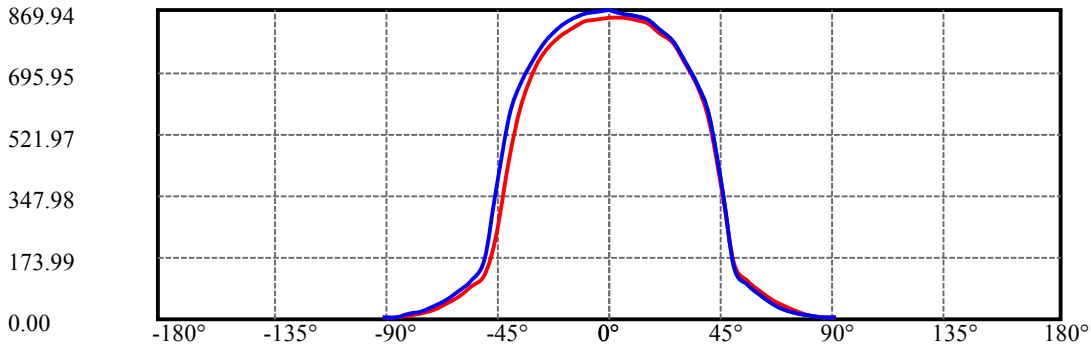
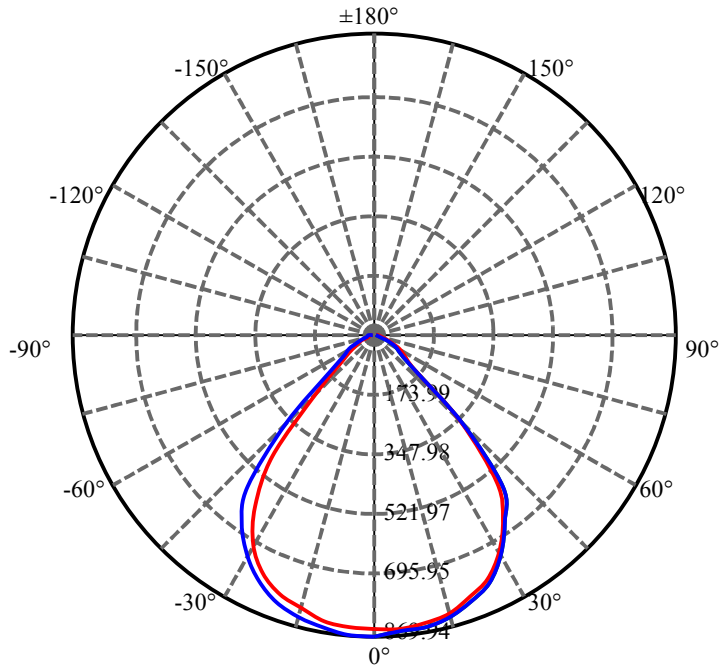
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	860.061	0.000	0	.000%	.000%
5.0	856.211	20.518	20.518	.921%	1.269%
10.0	852.562	61.128	81.646	2.745%	5.051%
15.0	837.161	100.233	181.879	4.501%	11.253%
20.0	814.895	136.153	318.031	6.114%	19.676%
25.0	781.381	167.420	485.451	7.518%	30.034%
30.0	732.888	191.632	677.083	8.605%	41.890%
35.0	663.351	205.606	882.689	9.232%	54.611%
40.0	575.040	206.616	1089.305	9.278%	67.394%
45.0	418.009	183.871	1273.176	8.256%	78.770%
50.0	239.407	132.841	1406.017	5.965%	86.989%
55.0	124.865	79.205	1485.222	3.557%	91.889%
60.0	79.292	47.190	1532.412	2.119%	94.809%
65.0	52.758	32.102	1564.514	1.441%	96.795%
70.0	33.899	21.942	1586.456	.985%	98.152%
75.0	19.692	14.008	1600.464	.629%	99.019%
80.0	11.163	8.256	1608.72	.371%	99.530%
85.0	5.833	4.618	1613.338	.207%	99.816%
90.0	5.057	2.982	1616.32	.134%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	677.08	30.40%	41.89%
0-40	1089.31	48.91%	67.39%
0-60	1532.41	68.81%	94.81%
0-90	1613.34	72.44%	99.82%
0-120	1613.34	72.44%	99.82%
0-180	1616.32	72.58%	100.00%
60-90	128.12	5.75%	7.93%
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%
0-45.75	1293.06	58.06%	80.00%

ZONAL LUMEN SUMMARY

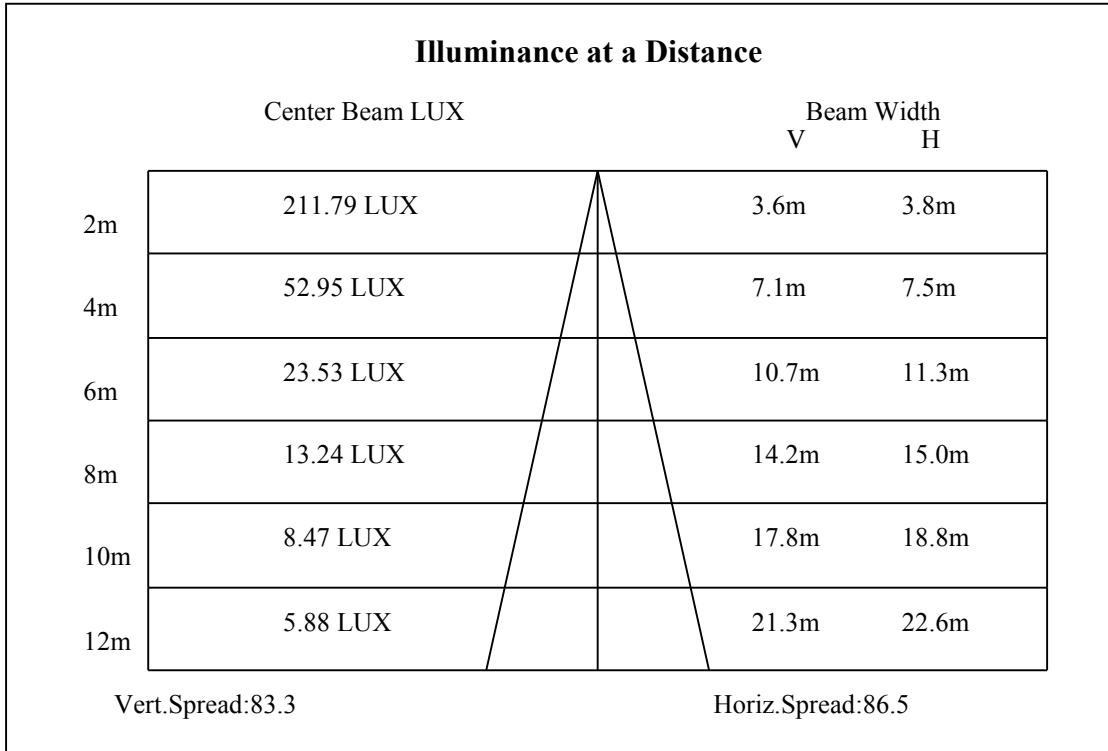
0-10	81.65
10-20	236.39
20-30	359.05
30-40	412.22
40-50	316.71
50-60	126.40
60-70	54.04
70-80	22.26
80-90	4.62
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

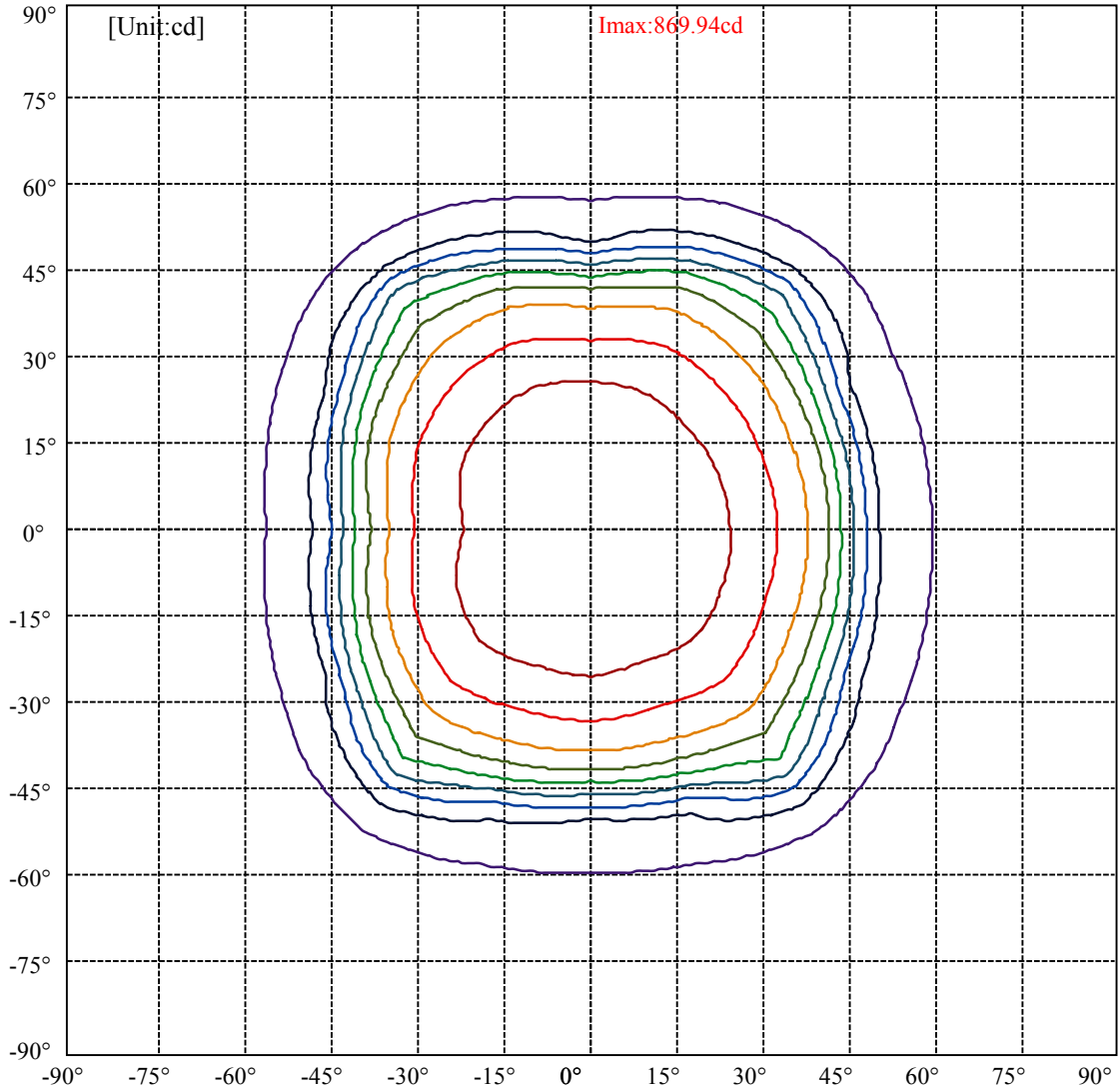


C90(Max): ———  
C0/C180: ———  
C90/C270: ———

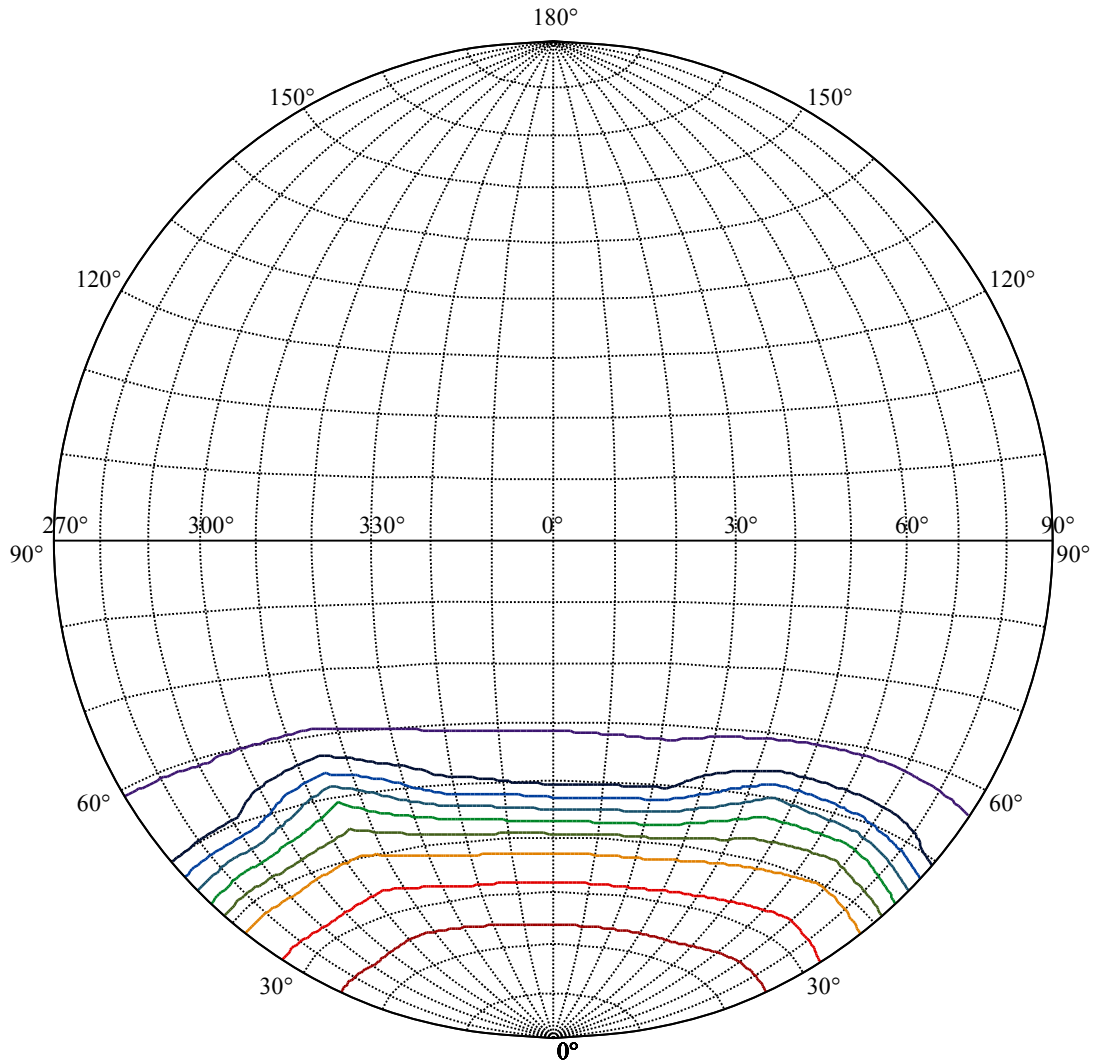
Field angle(10%Imax):C0/180Left:61.0 Right:54.0  
:C90/270Left:59.0 Right:56.4

Beam Angle(50%Imax):C0/180Left:45.6 Right:38.1  
:C90/270Left:43.3 Right:43.3





(10%Imax) 86.9942	—
(20%Imax) 173.988	—
(30%Imax) 260.983	—
(40%Imax) 347.977	—
(50%Imax) 434.971	—
(60%Imax) 521.965	—
(70%Imax) 608.96	—
(80%Imax) 695.954	—
(90%Imax) 782.948	—



House

[Unit:cd]

Road

I<sub>max</sub>:869.94

(10%I<sub>max</sub>) 86.9942

(20%I<sub>max</sub>) 173.988

(30%I<sub>max</sub>) 260.983

(40%I<sub>max</sub>) 347.977

(50%I<sub>max</sub>) 434.971

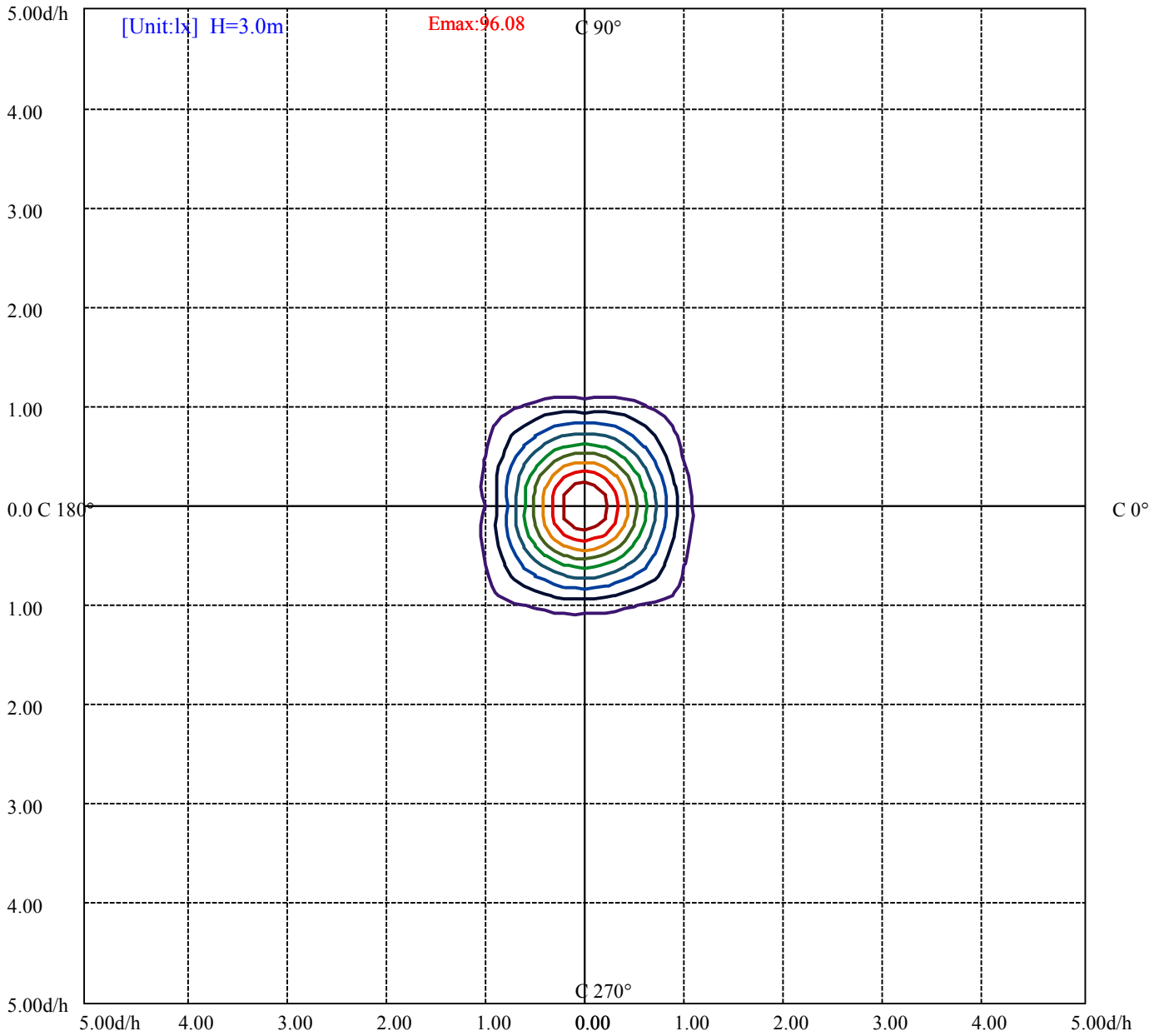
(60%I<sub>max</sub>) 521.965

(70%I<sub>max</sub>) 608.96

(80%I<sub>max</sub>) 695.954

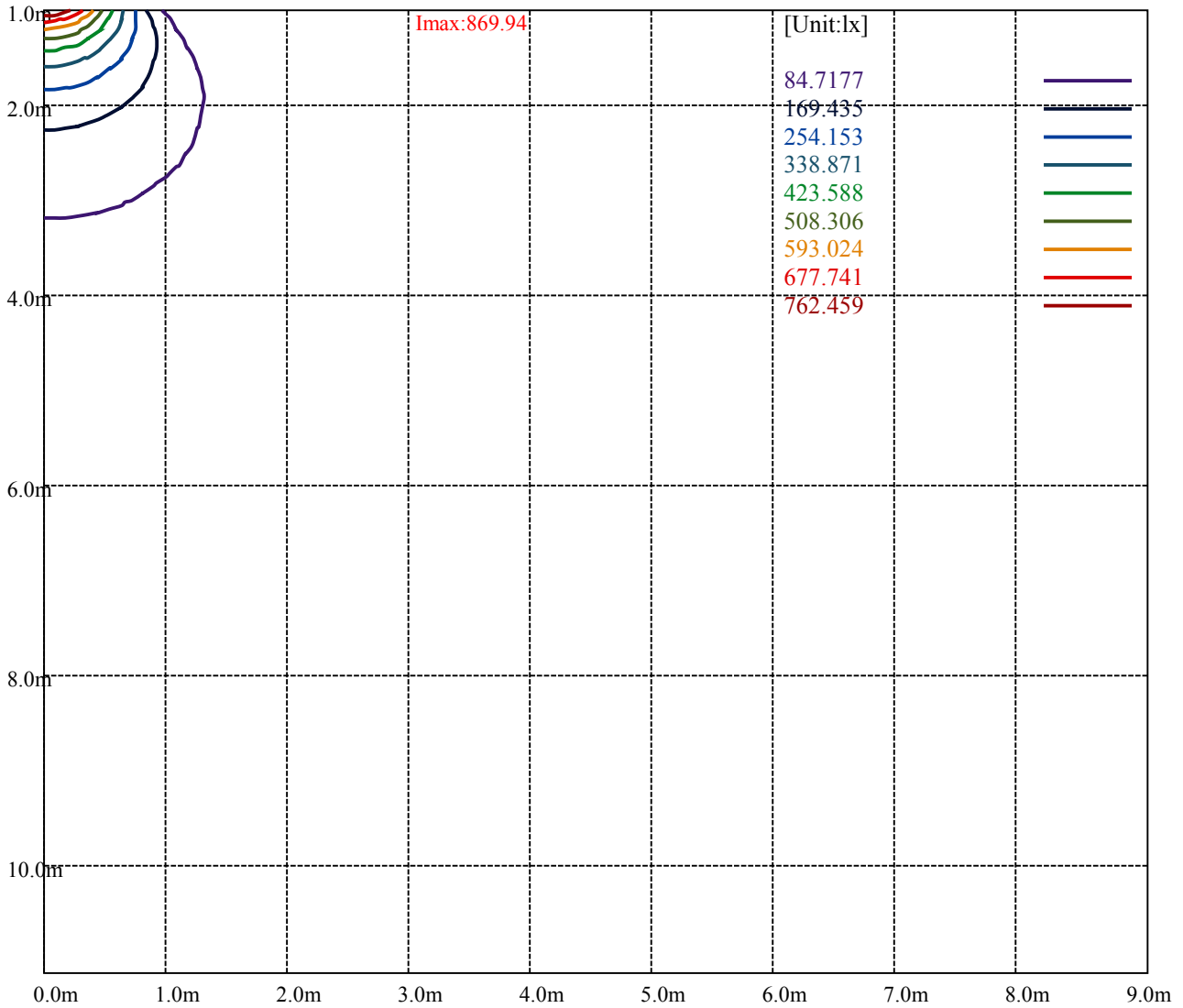
(90%I<sub>max</sub>) 782.948





- (10%Emax) 9.608267
- (20%Emax) 19.21656
- (30%Emax) 28.82478
- (40%Emax) 38.43311
- (50%Emax) 48.04134
- (60%Emax) 57.64956
- (70%Emax) 67.25789
- (80%Emax) 76.86611
- (90%Emax) 86.47445





Luminance Table

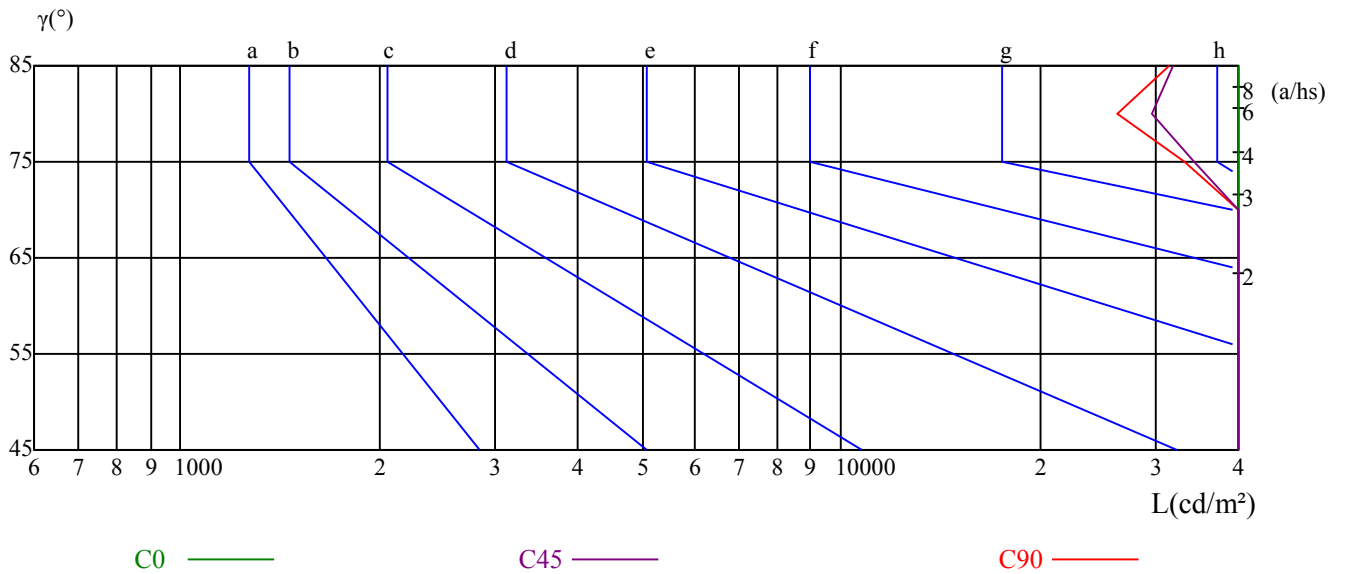
$\gamma$	45	50	55	60	65	70	75	80	85
C0	266718	129761	99669	86543	69585	57259	47572	41873	46349
C45	372199	296926	139559	83441	62550	46771	34337	29590	31888
C90	276270	121717	89245	73293	56586	42897	33088	26240	31517

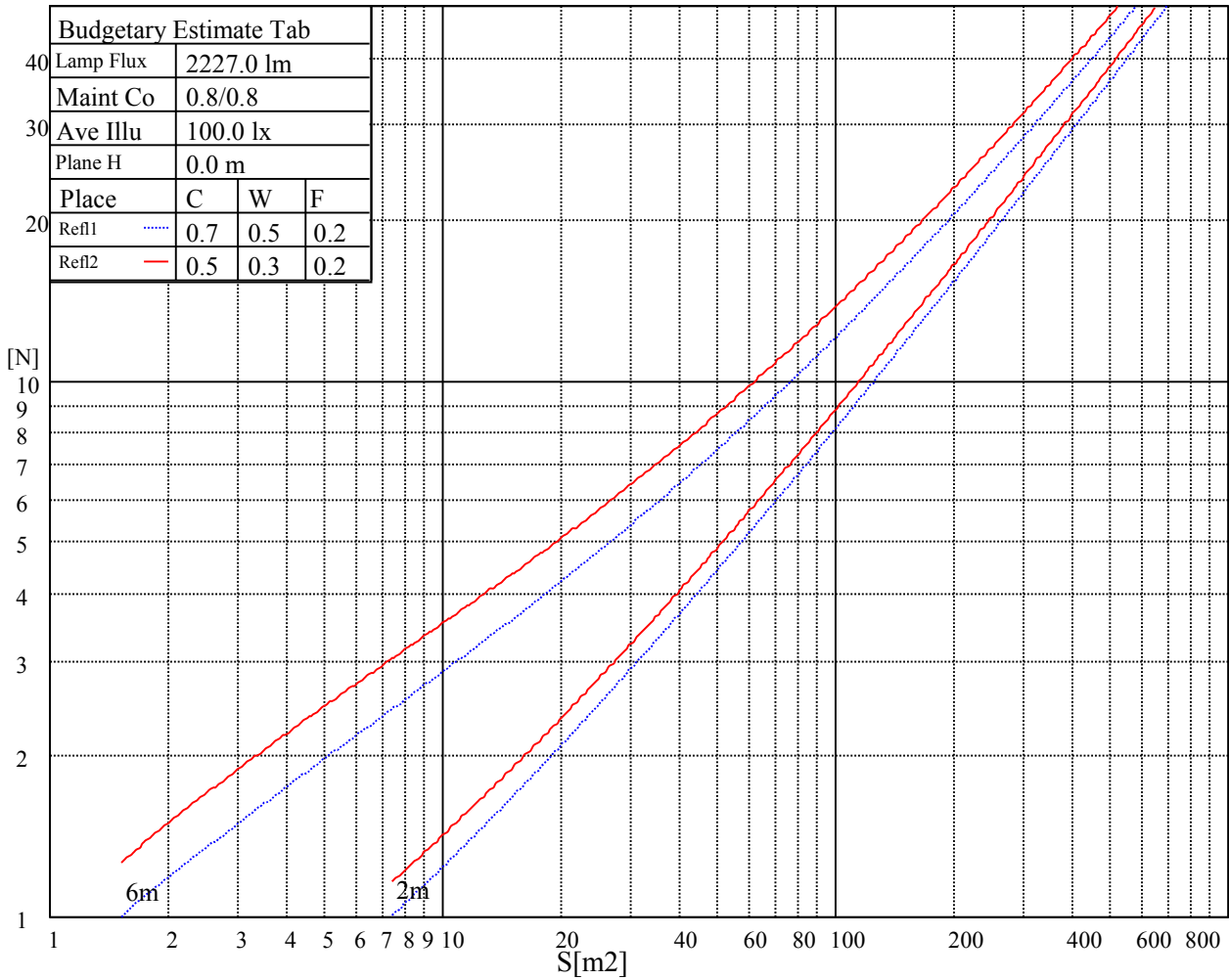
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
62626	64576	69470	41766	40018	40736	40972	33371	36152

Glare Table

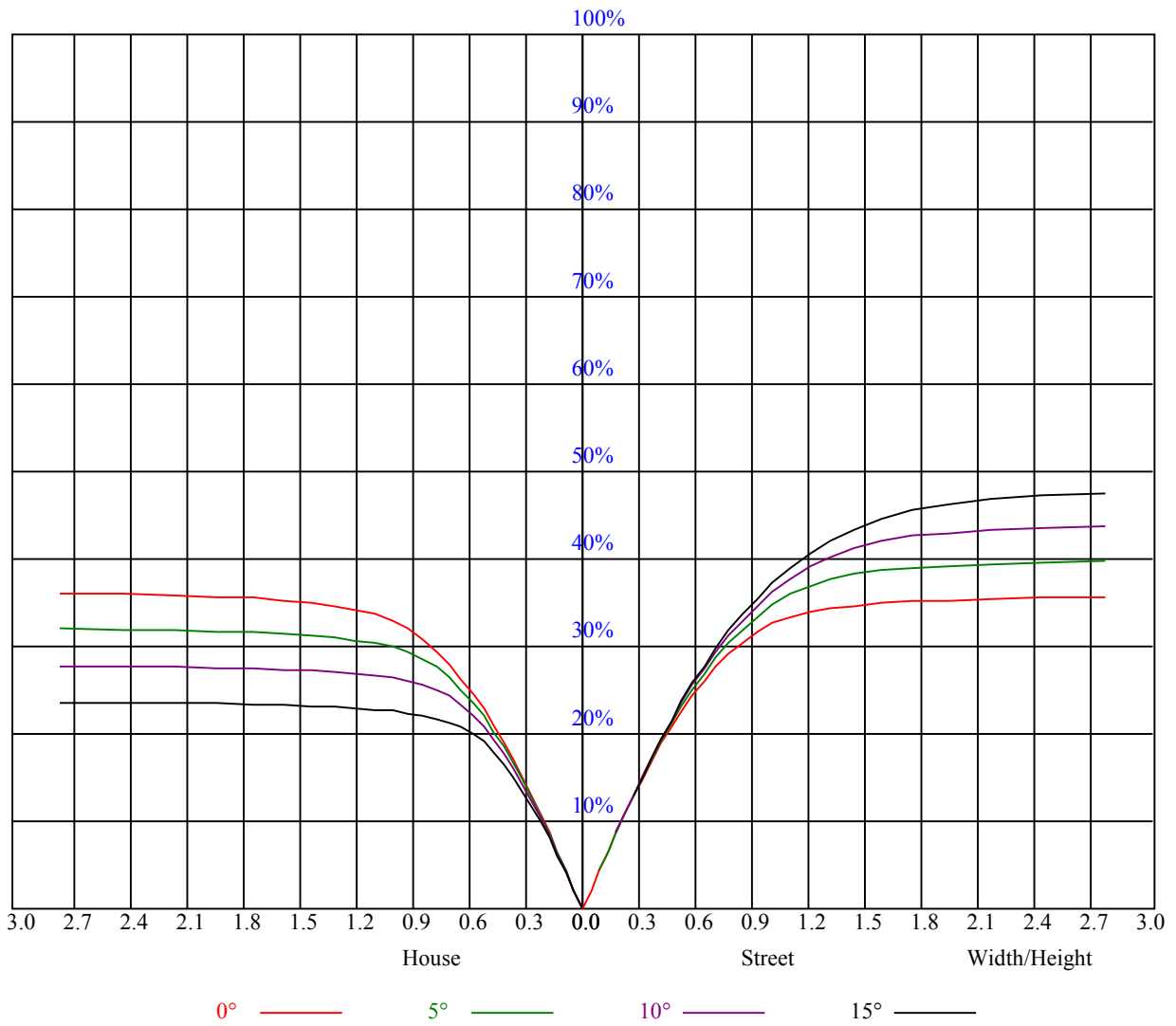
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.81	0.81	0.81	0.77	0.77	0.77	0.74	0.74	0.74	0.73
1	0.78	0.76	0.74	0.77	0.75	0.73	0.74	0.72	0.71	0.71	0.70	0.68	0.69	0.67	0.66	0.65
2	0.71	0.67	0.64	0.70	0.66	0.63	0.67	0.64	0.62	0.65	0.63	0.60	0.63	0.61	0.59	0.58
3	0.64	0.60	0.56	0.63	0.59	0.55	0.61	0.57	0.54	0.59	0.56	0.54	0.58	0.55	0.53	0.51
4	0.58	0.53	0.49	0.57	0.53	0.49	0.56	0.52	0.48	0.54	0.51	0.48	0.53	0.50	0.47	0.46
5	0.53	0.48	0.44	0.52	0.47	0.44	0.51	0.47	0.43	0.50	0.46	0.43	0.48	0.45	0.42	0.41
6	0.49	0.43	0.39	0.48	0.43	0.39	0.47	0.42	0.39	0.46	0.42	0.38	0.45	0.41	0.38	0.37
7	0.45	0.39	0.35	0.44	0.39	0.35	0.43	0.38	0.35	0.42	0.38	0.35	0.41	0.37	0.35	0.33
8	0.41	0.36	0.32	0.41	0.36	0.32	0.40	0.35	0.32	0.39	0.35	0.32	0.38	0.34	0.32	0.30
9	0.38	0.33	0.29	0.38	0.33	0.29	0.37	0.32	0.29	0.36	0.32	0.29	0.36	0.32	0.29	0.28
10	0.35	0.30	0.27	0.35	0.30	0.27	0.34	0.30	0.27	0.34	0.30	0.27	0.33	0.29	0.26	0.25



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	847.18	850.10	841.56	832.54	804.27	776.73	725.34	651.96	554.93	
22.5	857.69	844.67	852.49	830.68	809.53	773.98	721.93	645.69	557.08	
45.0	864.74	855.48	846.10	825.49	805.77	774.04	726.54	662.84	585.28	
67.5	868.57	861.58	854.88	841.86	817.84	783.78	741.53	680.05	606.19	
90.0	869.94	859.19	855.66	840.78	817.24	785.87	729.76	658.36	573.99	
112.5	863.01	860.98	856.56	845.03	822.92	793.94	747.39	686.80	614.50	
135.0	850.82	852.91	856.26	839.47	820.95	786.53	738.37	681.78	606.43	
157.5	858.53	855.00	854.65	837.56	807.02	779.24	732.81	658.95	559.05	
180.0	847.18	844.85	836.30	815.39	796.92	756.29	700.48	598.72	452.87	
202.5	857.69	858.53	854.82	840.54	821.72	782.28	741.59	662.42	557.73	
225.0	864.74	859.84	852.91	840.42	819.93	797.34	755.16	693.97	619.64	
247.5	868.57	864.45	860.98	843.95	820.77	783.84	733.53	667.08	583.97	
270.0	869.94	865.76	856.68	843.65	820.23	784.79	735.86	665.47	570.46	
292.5	863.01	861.22	853.27	837.14	814.91	777.09	727.25	657.94	578.05	
315.0	850.82	847.30	851.84	843.47	821.36	786.89	742.25	685.31	614.86	
337.5	858.53	857.51	856.02	836.60	816.94	779.48	726.42	656.27	565.62	
360.0	847.18	850.10	841.56	832.54	804.27	776.73	725.34	651.96	554.93	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	
0.0	348.72	154.22	105.70	80.01	54.38	36.21	22.77	13.44	7.47	
22.5	361.45	156.49	99.19	75.23	50.91	32.51	19.66	11.05	5.86	
45.0	486.63	352.90	148.01	77.14	48.88	29.58	16.43	9.50	5.14	
67.5	492.78	277.01	106.66	78.75	51.81	32.03	17.39	9.92	4.96	
90.0	361.21	144.66	94.65	67.76	44.22	27.13	15.83	8.43	5.08	
112.5	480.47	262.43	105.64	77.62	52.10	32.15	17.33	9.56	5.02	
135.0	509.93	390.60	166.11	75.11	45.77	29.10	16.19	9.08	5.08	
157.5	376.92	176.93	104.21	75.53	49.83	32.39	19.18	10.82	5.68	
180.0	231.54	122.02	90.41	64.00	43.50	28.38	17.21	10.22	5.74	
202.5	390.78	181.65	105.28	78.22	54.79	36.87	21.87	11.83	6.33	
225.0	527.50	414.92	213.38	95.49	61.31	38.12	22.71	13.15	6.45	
247.5	431.36	213.92	109.35	83.71	55.63	35.97	20.97	11.35	5.80	
270.0	362.10	165.16	110.30	81.44	56.71	37.94	22.47	14.16	5.68	
292.5	402.73	187.21	110.30	82.04	54.85	36.69	21.03	11.59	5.68	
315.0	517.94	424.31	220.73	94.41	61.19	39.44	22.65	13.09	6.63	
337.5	406.08	206.09	107.91	82.22	58.26	37.88	21.39	11.41	6.75	
360.0	348.72	154.22	105.70	80.01	54.38	36.21	22.77	13.44	7.47	
C/γ(°)	90.0									
0.0	5.14									
22.5	5.02									
45.0	5.14									
67.5	5.08									
90.0	5.26									
112.5	5.14									
135.0	5.14									
157.5	5.08									
180.0	5.08									
202.5	5.02									
225.0	4.90									
247.5	4.96									
270.0	5.02									
292.5	4.96									
315.0	4.96									
337.5	5.02									
360.0	5.14									