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Nata

LumCAT: 12-0080-M2	
Luminaire: LM07126080EM	
Report No: 220524-B003	Voltage(V): 12.5500
Test No: 220524-C003	Current(A): 1.1150
LampCAT: LUMILEDS 5050	Power (W): 13.9930
Lamp flux(lm): 1682.8	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1291.01
Efficiency(%): 76.72%
Lumens(lm)/Power(W): 92.26
Central intensity(cd): 867.612
Maximum intensity(cd): 887.092
Angle of maximum intensity: C=90.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=74.7
 [C90/270]Total=80.4
Field angle(10%Imax): [C0/180]Total=95.3
 [C90/270]Total=101.3
Maximum s/h(1/2): C0_180=1.04 C90_270=1.11
Maximum s/h(1/4): C0_180=1.02 C90_270=1.09
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 76.72%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.132%

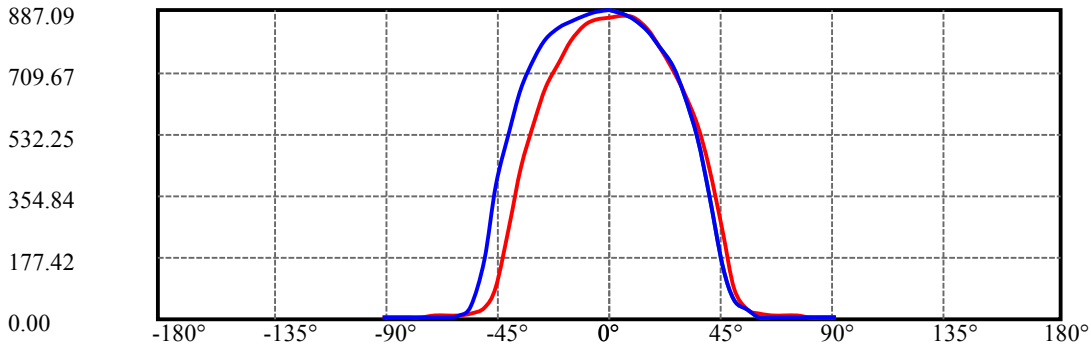
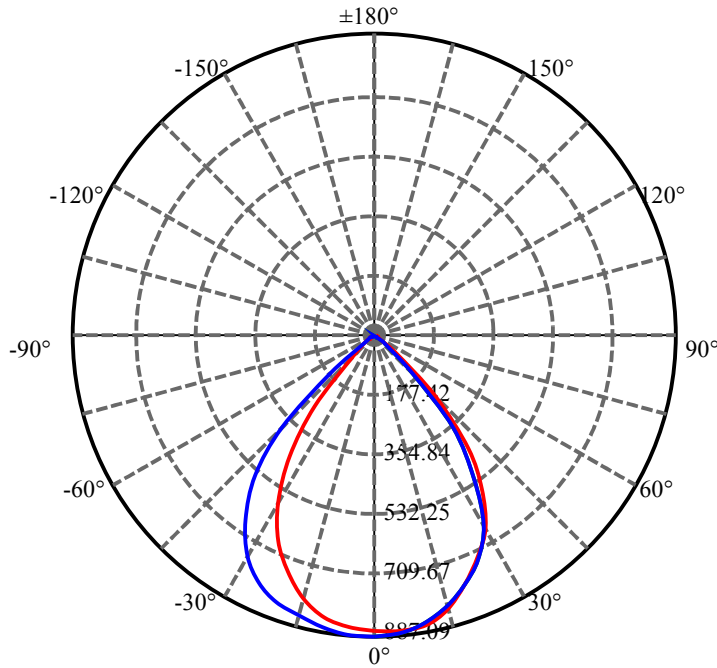
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	875.612	0.000	0	.000%	.000%
5.0	872.437	20.897	20.897	1.242%	1.619%
10.0	858.698	61.928	82.826	3.680%	6.416%
15.0	828.646	100.092	182.918	5.948%	14.169%
20.0	783.461	132.860	315.778	7.895%	24.460%
25.0	722.902	157.990	473.768	9.388%	36.698%
30.0	650.295	173.779	647.547	10.327%	50.158%
35.0	552.636	177.140	824.687	10.526%	63.879%
40.0	436.924	165.101	989.787	9.811%	76.668%
45.0	284.726	133.619	1123.407	7.940%	87.018%
50.0	142.914	86.411	1209.818	5.135%	93.711%
55.0	49.505	41.838	1251.656	2.486%	96.952%
60.0	16.425	15.240	1266.896	.906%	98.132%
65.0	8.922	6.162	1273.057	.366%	98.610%
70.0	7.932	4.268	1277.325	.254%	98.940%
75.0	7.118	3.934	1281.259	.234%	99.245%
80.0	6.450	3.630	1284.889	.216%	99.526%
85.0	5.542	3.258	1288.148	.194%	99.778%
90.0	4.903	2.860	1291.008	.170%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	647.55	38.48%	50.16%
0-40	989.79	58.82%	76.67%
0-60	1266.90	75.28%	98.13%
0-90	1288.15	76.55%	99.78%
0-120	1288.15	76.55%	99.78%
0-180	1291.01	76.72%	100.00%
60-90	36.49	2.17%	2.83%
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%
0-41.61	1032.81	61.37%	80.00%

ZONAL LUMEN SUMMARY

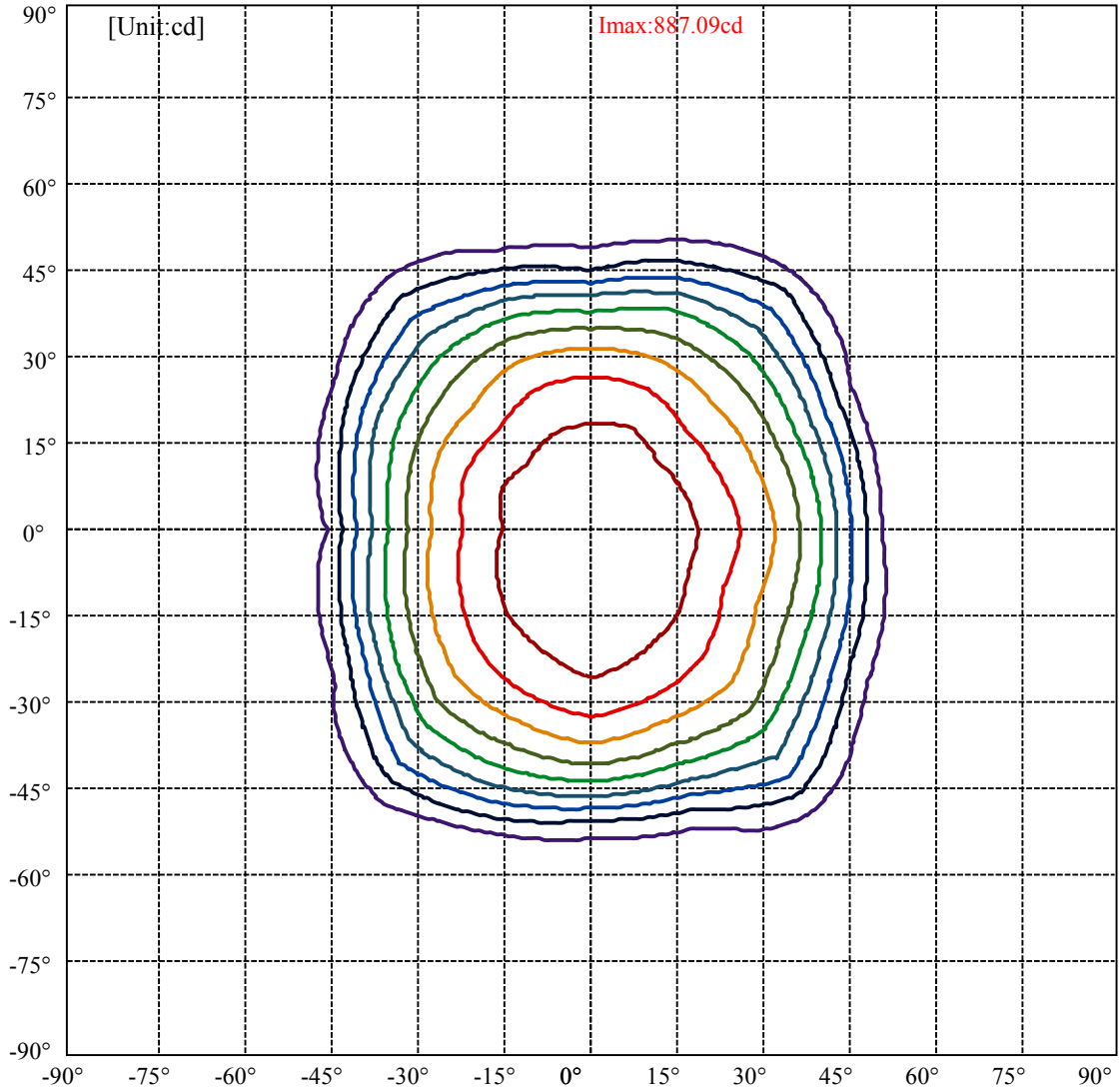
0-10	82.83
10-20	232.95
20-30	331.77
30-40	342.24
40-50	220.03
50-60	57.08
60-70	10.43
70-80	7.56
80-90	3.26
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



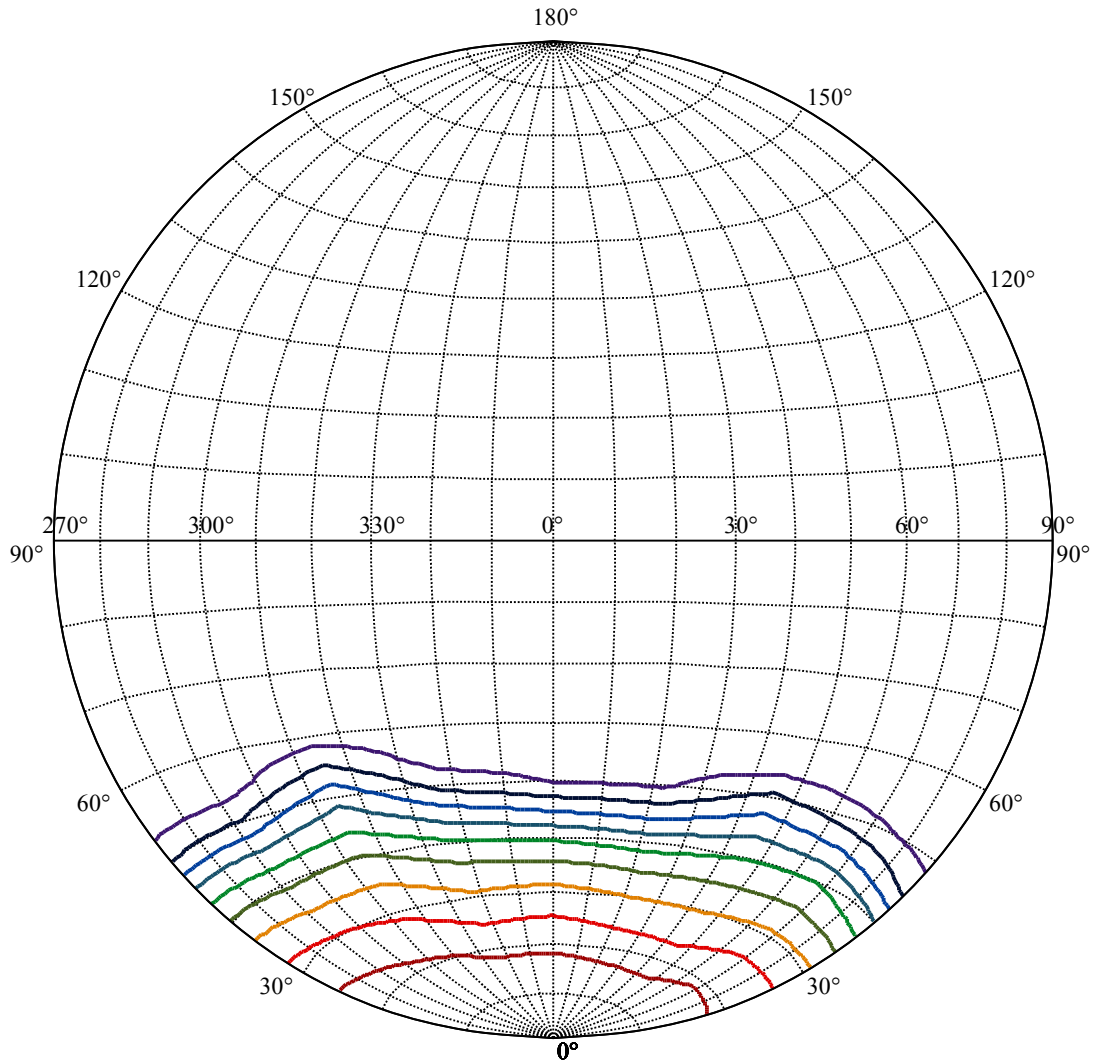
C90(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:50.3 Right:44.9
 :C90/270Left:53.1 Right:48.3

Beam Angle(50%Imax):C0/180Left:39.9 Right:34.8
 :C90/270Left:43.2 Right:37.3



(10%Imax) 88.7092	—
(20%Imax) 177.418	—
(30%Imax) 266.127	—
(40%Imax) 354.837	—
(50%Imax) 443.546	—
(60%Imax) 532.255	—
(70%Imax) 620.964	—
(80%Imax) 709.673	—
(90%Imax) 798.382	—



House

[Unit:cd]

Road

I_{max}:887.09

(10%I_{max}) 88.7092

(20%I_{max}) 177.418

(30%I_{max}) 266.127

(40%I_{max}) 354.837

(50%I_{max}) 443.546

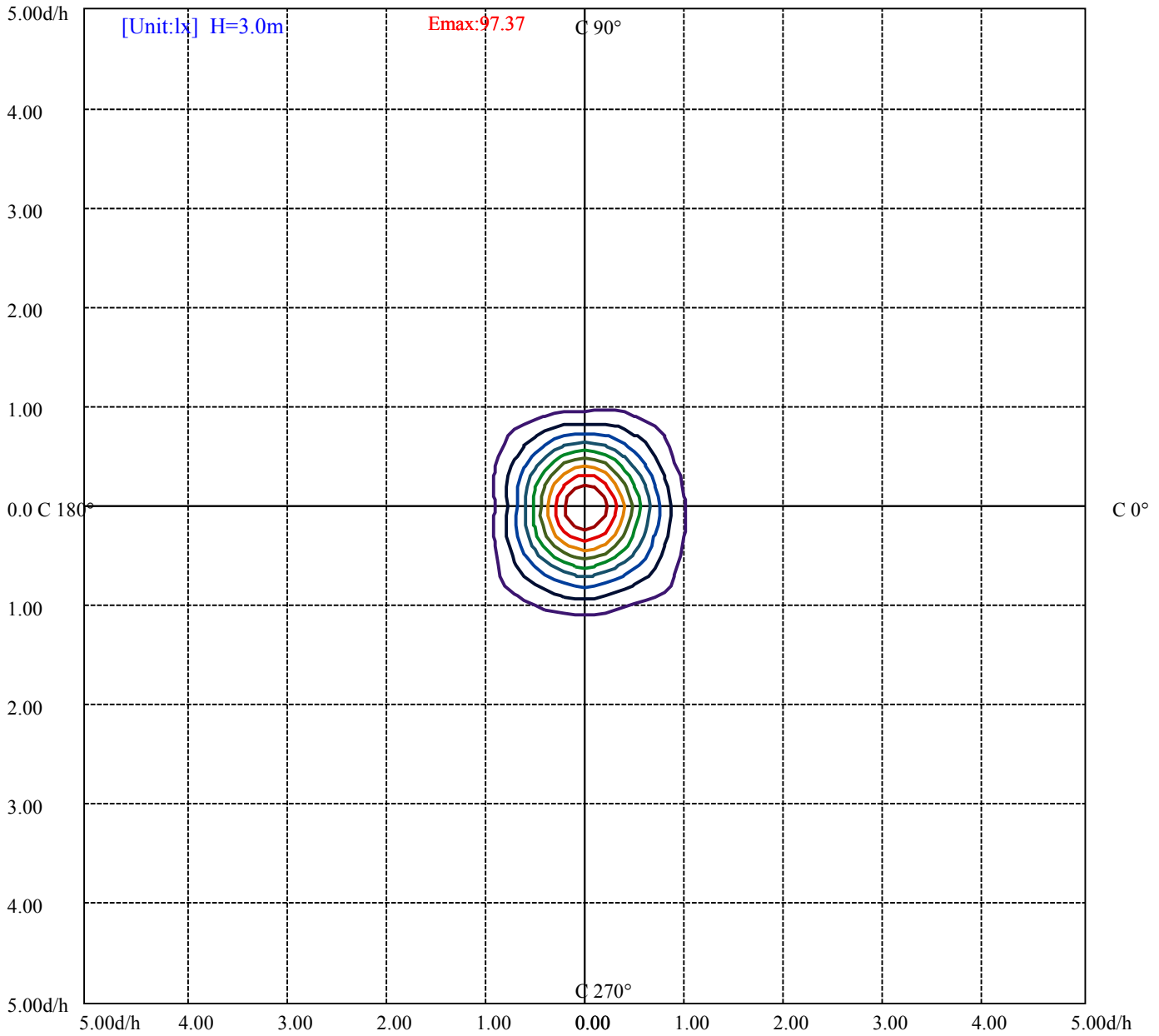
(60%I_{max}) 532.255

(70%I_{max}) 620.964

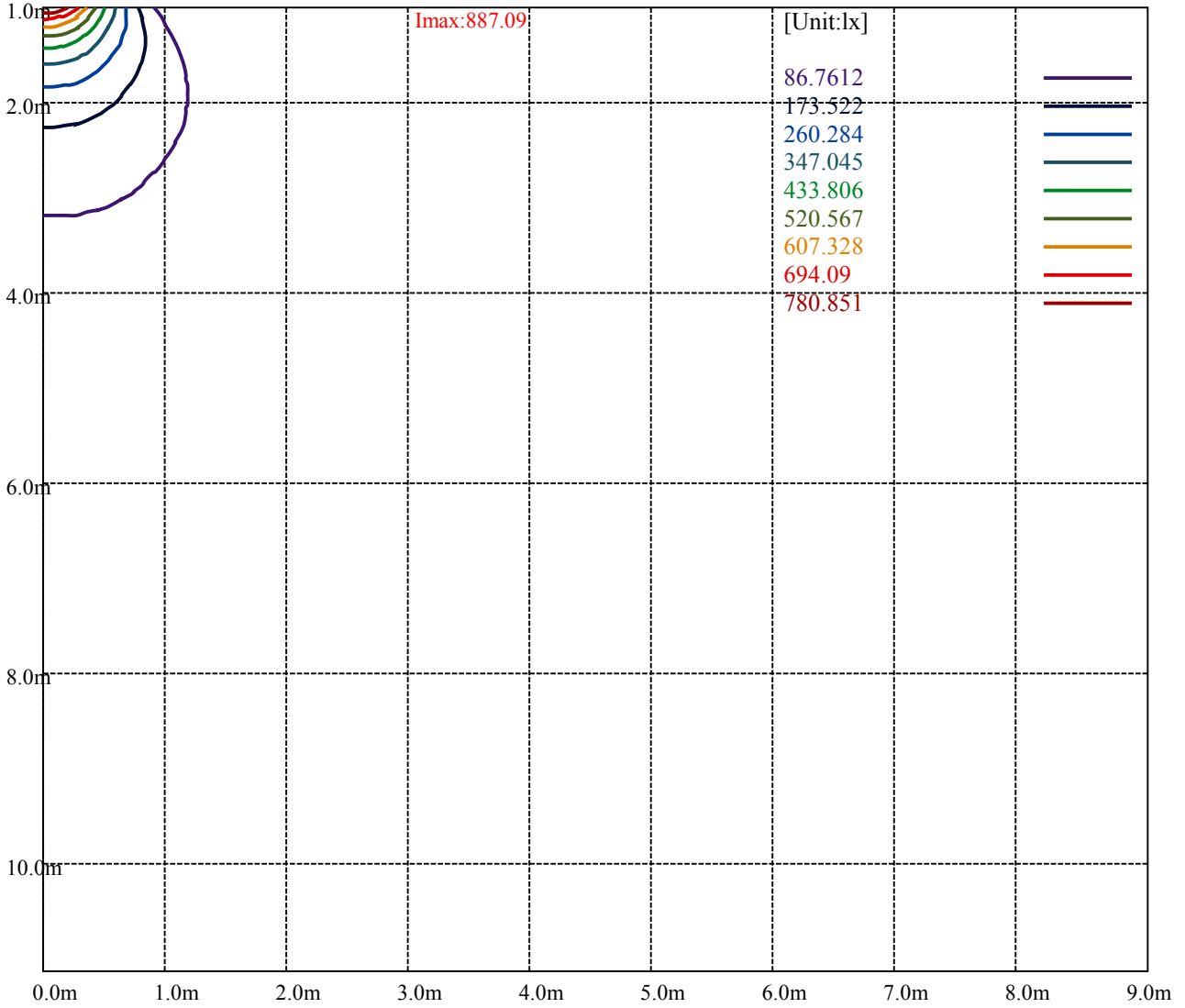
(80%I_{max}) 709.673

(90%I_{max}) 798.382





(10%Emax) 9.737066	—
(20%Emax) 19.47411	—
(30%Emax) 29.21122	—
(40%Emax) 38.94833	—
(50%Emax) 48.68533	—
(60%Emax) 58.42244	—
(70%Emax) 68.15945	—
(80%Emax) 77.89655	—
(90%Emax) 87.63367	—



Luminance Table

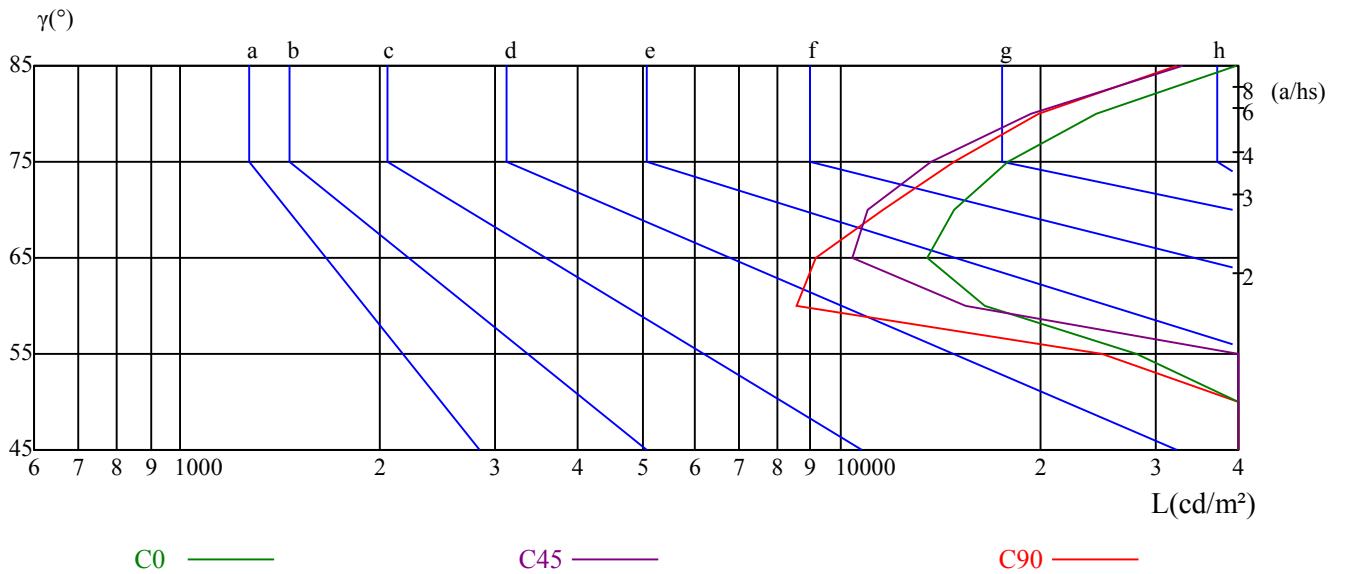
γ	45	50	55	60	65	70	75	80	85
C0	195925	71894	28002	16546	13535	14834	17855	24379	39674
C45	247295	170936	51834	15447	10400	10960	13735	19355	33000
C90	119694	44544	24790	8596	9176	11622	14858	19913	32259

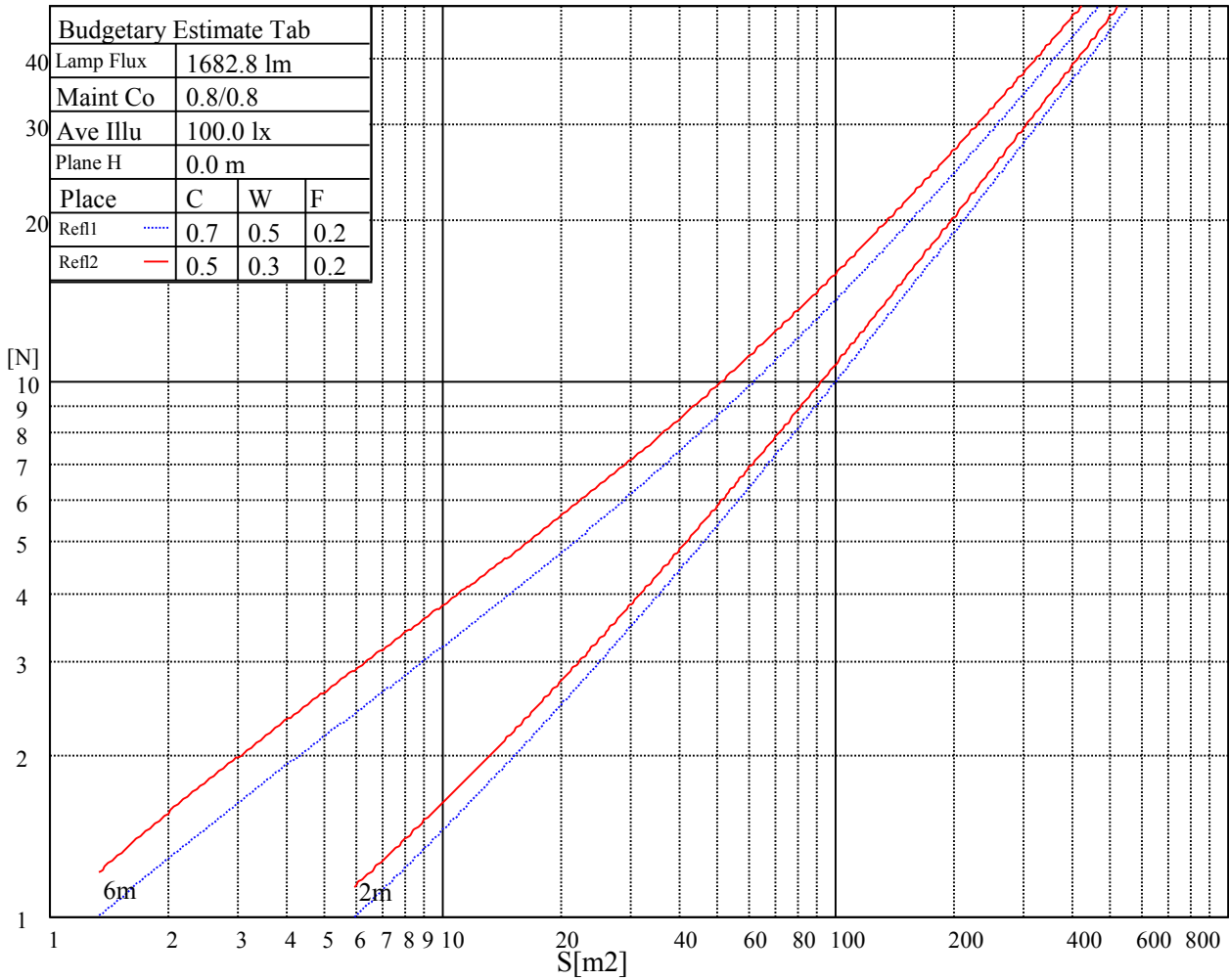
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
12694	9214	11871	16669	13735	14234	36893	33371	34391

Glare Table

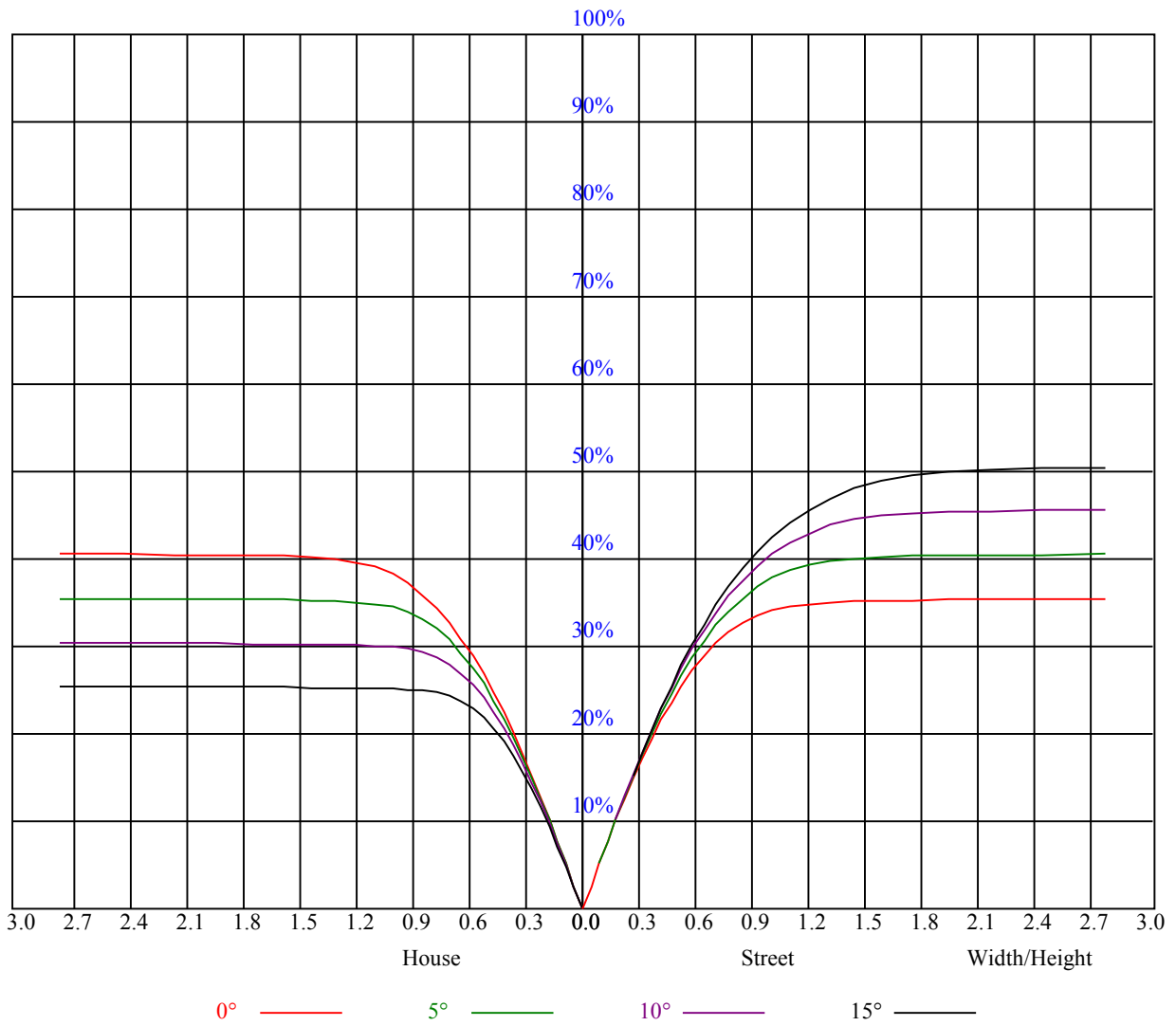
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.91	0.91	0.91	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.78	0.78	0.78	0.77
1	0.84	0.81	0.79	0.82	0.80	0.78	0.79	0.77	0.76	0.76	0.75	0.74	0.73	0.72	0.71	0.70
2	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.70	0.68	0.70	0.68	0.66	0.68	0.66	0.65	0.63
3	0.70	0.66	0.62	0.69	0.65	0.62	0.67	0.63	0.61	0.65	0.62	0.60	0.63	0.61	0.59	0.57
4	0.64	0.59	0.56	0.63	0.59	0.55	0.62	0.58	0.55	0.60	0.57	0.54	0.59	0.56	0.53	0.52
5	0.59	0.54	0.50	0.58	0.54	0.50	0.57	0.53	0.49	0.56	0.52	0.49	0.54	0.51	0.48	0.47
6	0.55	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.51	0.47	0.44	0.43
7	0.51	0.45	0.41	0.50	0.45	0.41	0.49	0.44	0.41	0.48	0.44	0.41	0.47	0.43	0.41	0.39
8	0.47	0.42	0.38	0.46	0.41	0.38	0.45	0.41	0.38	0.45	0.40	0.37	0.44	0.40	0.37	0.36
9	0.44	0.38	0.35	0.43	0.38	0.35	0.42	0.38	0.35	0.42	0.37	0.34	0.41	0.37	0.34	0.33
10	0.41	0.36	0.32	0.40	0.35	0.32	0.40	0.35	0.32	0.39	0.35	0.32	0.38	0.35	0.32	0.31



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	867.61	872.93	864.86	834.51	780.13	718.17	651.96	554.21	432.61
22.5	877.05	876.87	860.02	821.24	765.14	693.01	620.24	524.93	400.64
45.0	876.34	872.51	854.82	813.77	756.77	684.83	616.95	532.22	437.15
67.5	878.85	874.36	862.29	832.54	786.53	724.68	644.55	543.27	441.04
90.0	887.09	877.53	858.65	825.19	781.39	728.45	646.23	515.91	357.14
112.5	875.20	867.85	849.63	819.63	777.74	719.42	646.35	536.82	407.75
135.0	868.93	862.59	842.46	805.89	751.63	678.85	603.21	517.94	412.24
157.5	873.83	867.25	853.09	817.66	760.12	687.28	600.52	482.92	369.27
180.0	867.61	860.86	841.62	799.14	739.08	664.27	568.61	433.45	271.10
202.5	877.05	871.74	857.51	827.22	772.01	701.74	622.57	516.27	389.95
225.0	876.34	875.68	866.66	841.50	800.09	746.37	681.42	600.64	508.02
247.5	878.85	874.42	862.00	844.31	819.51	775.05	711.96	619.34	514.95
270.0	887.09	883.86	870.00	855.36	836.96	802.72	747.21	659.97	541.06
292.5	875.20	873.35	862.89	844.31	822.38	782.88	716.74	620.53	513.40
315.0	868.93	869.64	865.16	842.93	807.32	752.17	690.74	622.63	540.70
337.5	873.83	877.53	867.49	833.13	778.58	706.52	635.47	561.14	453.76
360.0	867.61	872.93	864.86	834.51	780.13	718.17	651.96	554.21	432.61
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	256.16	85.45	29.70	15.30	10.58	9.38	8.54	7.83	6.39
22.5	234.71	76.54	25.45	12.97	10.04	9.62	7.89	6.69	5.44
45.0	323.32	203.16	54.97	14.28	8.13	6.93	6.57	6.21	5.32
67.5	273.67	114.43	36.87	19.36	7.65	7.41	7.17	6.75	5.32
90.0	156.49	52.94	26.29	7.95	7.17	7.35	7.11	6.39	5.20
112.5	225.69	86.28	33.16	14.04	7.35	7.29	7.17	6.57	5.20
135.0	292.73	170.71	44.64	12.07	7.53	6.87	6.75	6.33	5.32
157.5	210.03	68.18	23.72	13.03	10.88	8.90	7.11	6.21	5.32
180.0	91.24	30.47	15.00	10.22	9.26	8.43	7.41	6.75	5.50
202.5	203.16	64.17	24.20	11.47	8.96	8.72	7.47	6.75	5.74
225.0	392.46	265.72	114.25	21.09	9.68	7.53	6.75	6.04	5.62
247.5	396.28	229.75	56.41	16.85	7.59	6.93	6.21	5.86	5.62
270.0	387.20	172.21	35.85	13.32	7.23	6.69	6.04	5.74	5.56
292.5	370.59	186.91	44.75	16.01	7.83	7.11	6.15	5.80	5.56
315.0	429.03	332.11	188.64	47.32	11.77	8.37	7.17	6.33	5.92
337.5	312.87	147.59	38.18	17.51	11.11	9.38	8.37	6.93	5.68
360.0	256.16	85.45	29.70	15.30	10.58	9.38	8.54	7.83	6.39
C/γ(°)	90.0								
0.0	4.60								
22.5	4.66								
45.0	4.96								
67.5	5.02								
90.0	5.08								
112.5	5.02								
135.0	5.02								
157.5	4.84								
180.0	4.30								
202.5	4.54								
225.0	5.02								
247.5	5.02								
270.0	5.08								
292.5	5.02								
315.0	5.26								
337.5	5.02								
360.0	4.60								