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Nata

LumCAT: 1407-N	
Luminaire: 92.70.064.00	
Report No: NATA0100	Voltage(V): 36.0000
Test No: GC2018072806	Current(A): 0.3000
LampCAT: BRIDGELUX V6HD	Power (W): 10.8300
Lamp flux(lm): 1137.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 39	Width(mm): 39
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 941.32
Efficiency(%): 82.79%
Lumens(lm)/Power(W): 86.92
Central intensity(cd): 1160.864
Maximum intensity(cd): 1160.864
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=44.2
 [C90/270]Total=44.2
Field angle(10%Imax): [C0/180]Total=93.4
 [C90/270]Total=93.4
Maximum s/h(1/2): C0_180=0.68 C90_270=0.68
Maximum s/h(1/4): C0_180=0.77 C90_270=0.77
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.32%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.300%

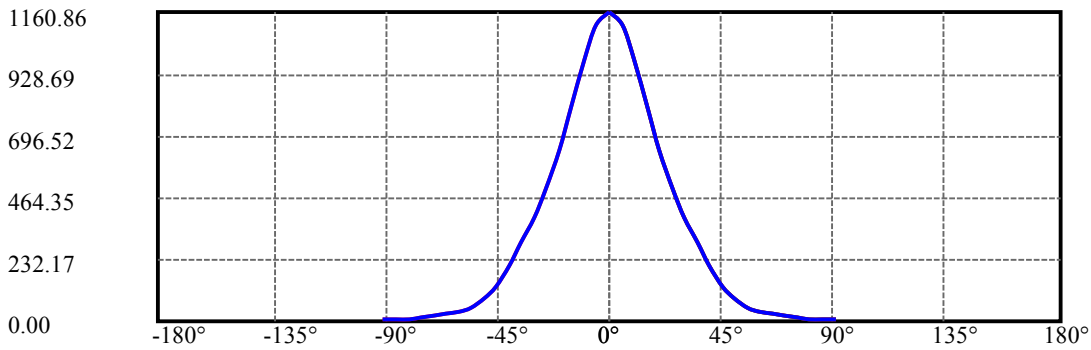
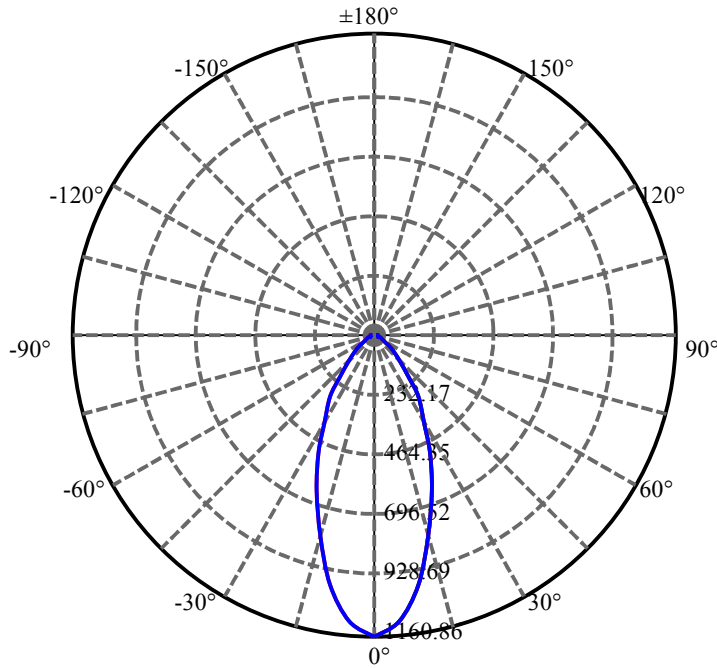
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1160.864	6.942	6.942	.611%	.737%
5.0	1107.866	52.926	59.869	4.655%	6.360%
10.0	978.394	93.126	152.995	8.191%	16.253%
15.0	803.424	113.981	266.976	10.025%	28.362%
20.0	638.985	119.793	386.769	10.536%	41.088%
25.0	499.348	115.675	502.444	10.174%	53.377%
30.0	390.254	106.956	609.4	9.407%	64.739%
35.0	292.996	92.118	701.518	8.102%	74.525%
40.0	208.856	73.588	775.106	6.472%	82.342%
45.0	132.803	51.473	826.579	4.527%	87.811%
50.0	83.810	35.191	861.77	3.095%	91.549%
55.0	52.923	23.763	885.533	2.090%	94.074%
60.0	36.454	17.305	902.838	1.522%	95.912%
65.0	25.698	12.766	915.604	1.123%	97.268%
70.0	18.754	9.660	925.264	.850%	98.294%
75.0	13.145	6.960	932.223	.612%	99.034%
80.0	8.892	4.800	937.023	.422%	99.544%
85.0	5.788	3.160	940.184	.278%	99.879%
90.0	4.143	1.135	941.319	.100%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	609.40	53.60%	64.74%
0-40	775.11	68.17%	82.34%
0-60	902.84	79.41%	95.91%
0-90	940.18	82.69%	99.88%
0-120	940.18	82.69%	99.88%
0-180	941.32	82.79%	100.00%
60-90	54.65	4.81%	5.81%
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%
0-38.50	753.06	66.23%	80.00%

ZONAL LUMEN SUMMARY

0-10	153.00
10-20	233.77
20-30	222.63
30-40	165.71
40-50	86.66
50-60	41.07
60-70	22.43
70-80	11.76
80-90	3.16
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



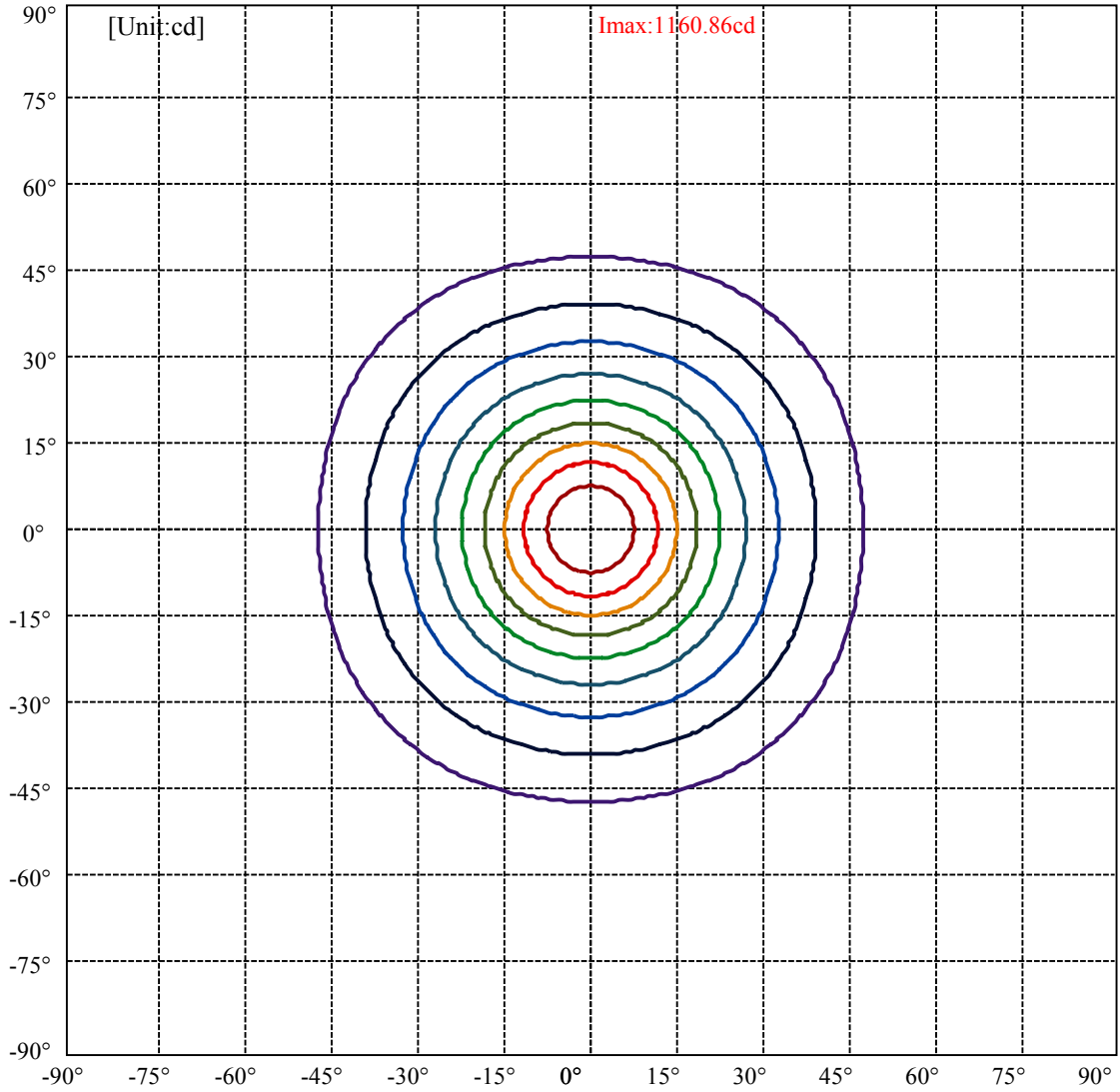
C0(Max): —————

C0/C180: —————

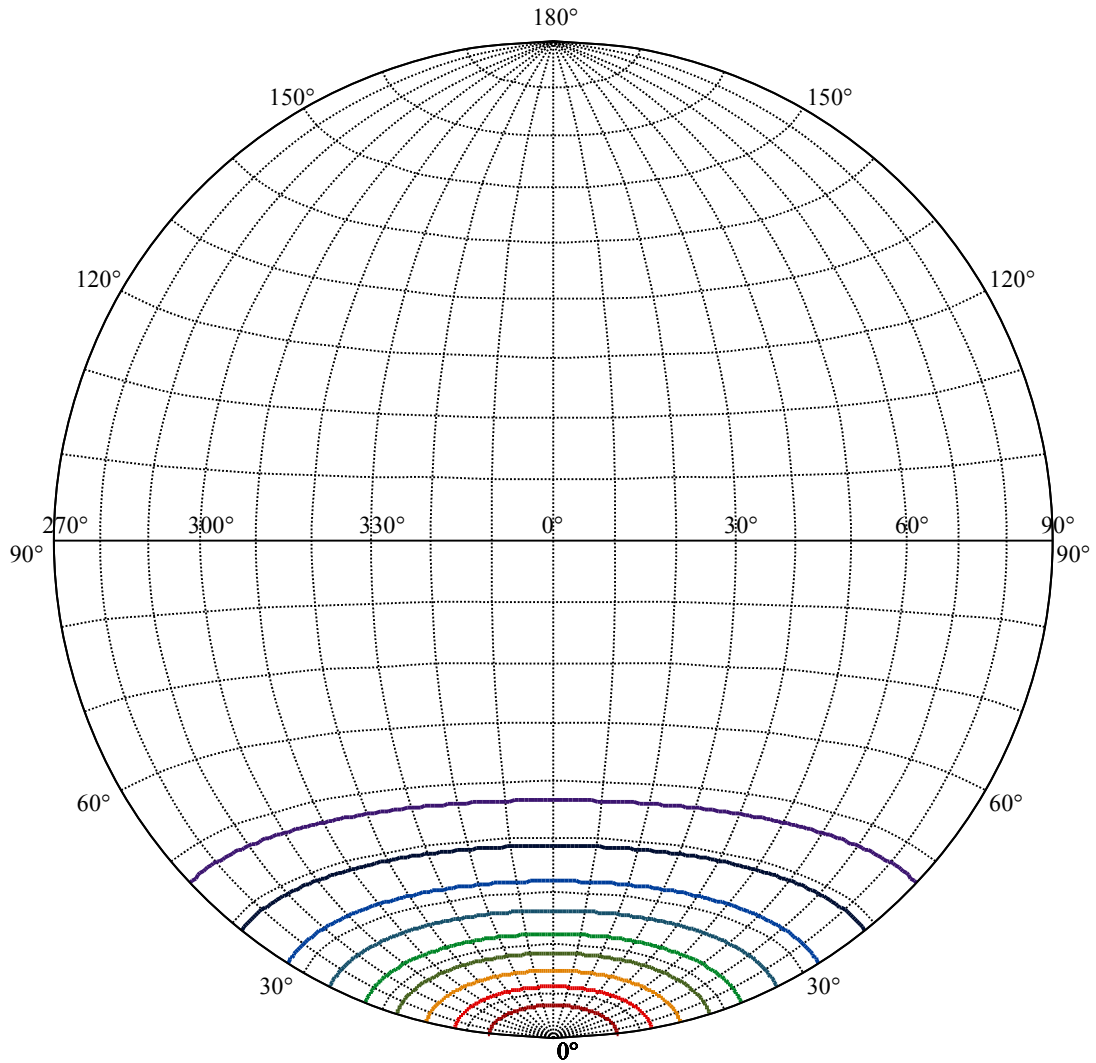
C90/C270: —————

Field angle(10%Imax):C0/180Left:46.7 Right:46.7
:C90/270Left:46.7 Right:46.7

Beam Angle(50%Imax):C0/180Left:22.1 Right:22.1
:C90/270Left:22.1 Right:22.1



(10%Imax) 116.086	—
(20%Imax) 232.173	—
(30%Imax) 348.259	—
(40%Imax) 464.346	—
(50%Imax) 580.432	—
(60%Imax) 696.519	—
(70%Imax) 812.605	—
(80%Imax) 928.691	—
(90%Imax) 1044.78	—



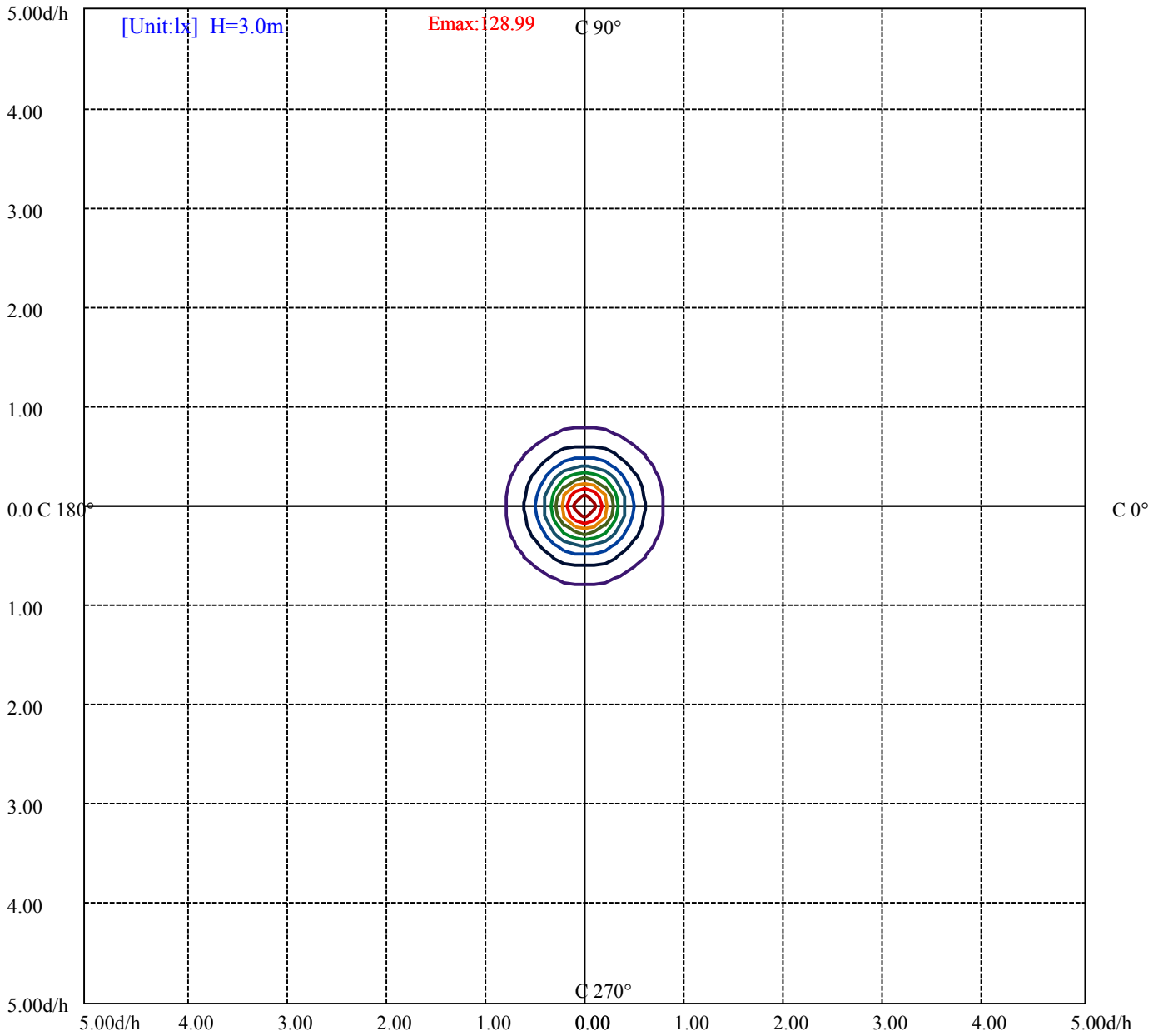
House

[Unit:cd]

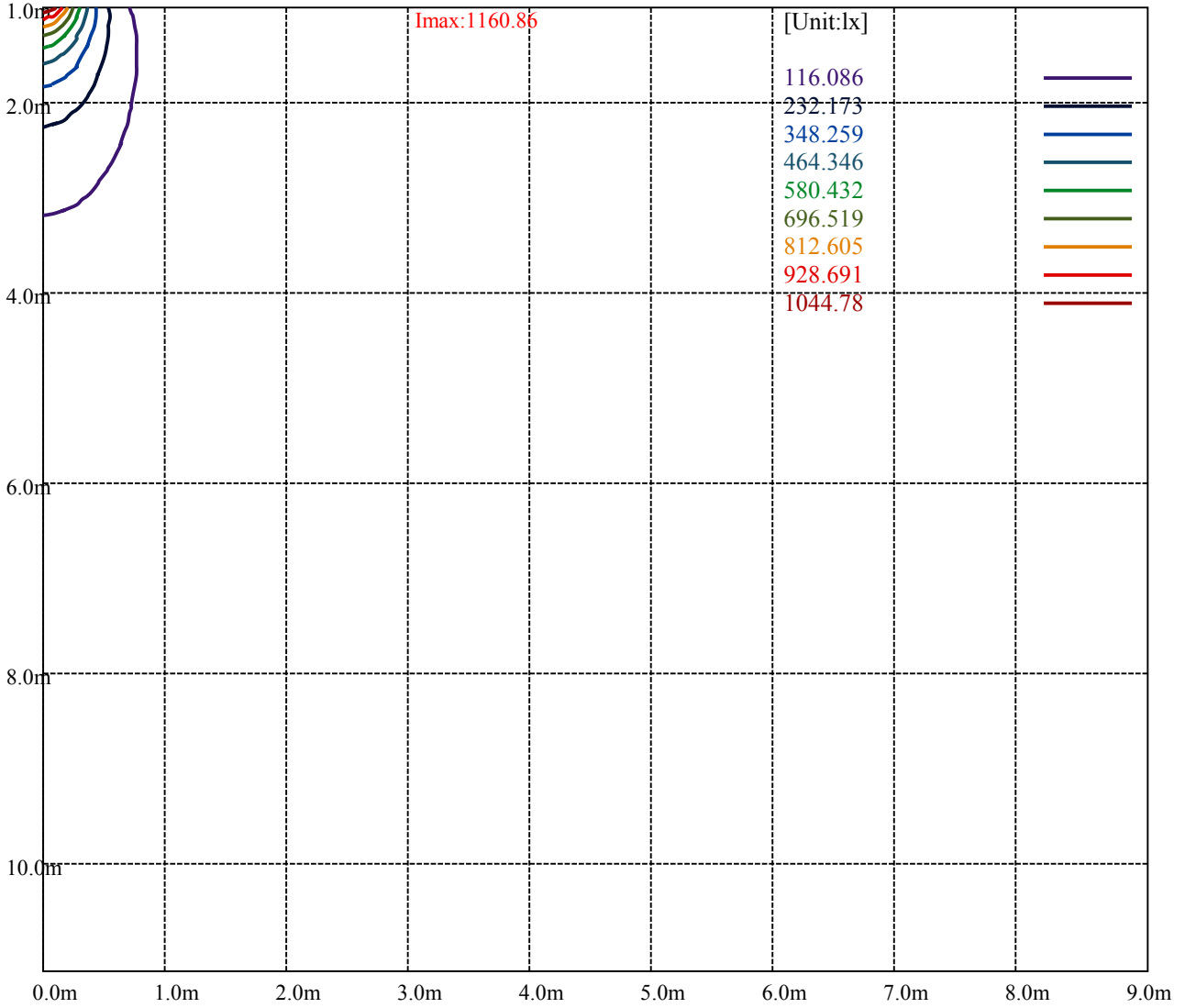
Road

I_{max}:1160.86

(10%I _{max})	116.086	—
(20%I _{max})	232.173	—
(30%I _{max})	348.259	—
(40%I _{max})	464.346	—
(50%I _{max})	580.432	—
(60%I _{max})	696.519	—
(70%I _{max})	812.605	—
(80%I _{max})	928.691	—
(90%I _{max})	1044.78	—



- (10%Emax) 12.89844
- (20%Emax) 25.797
- (30%Emax) 38.69545
- (40%Emax) 51.59389
- (50%Emax) 64.49234
- (60%Emax) 77.39089
- (70%Emax) 90.28934
- (80%Emax) 103.1878
- (90%Emax) 116.0867



Luminance Table

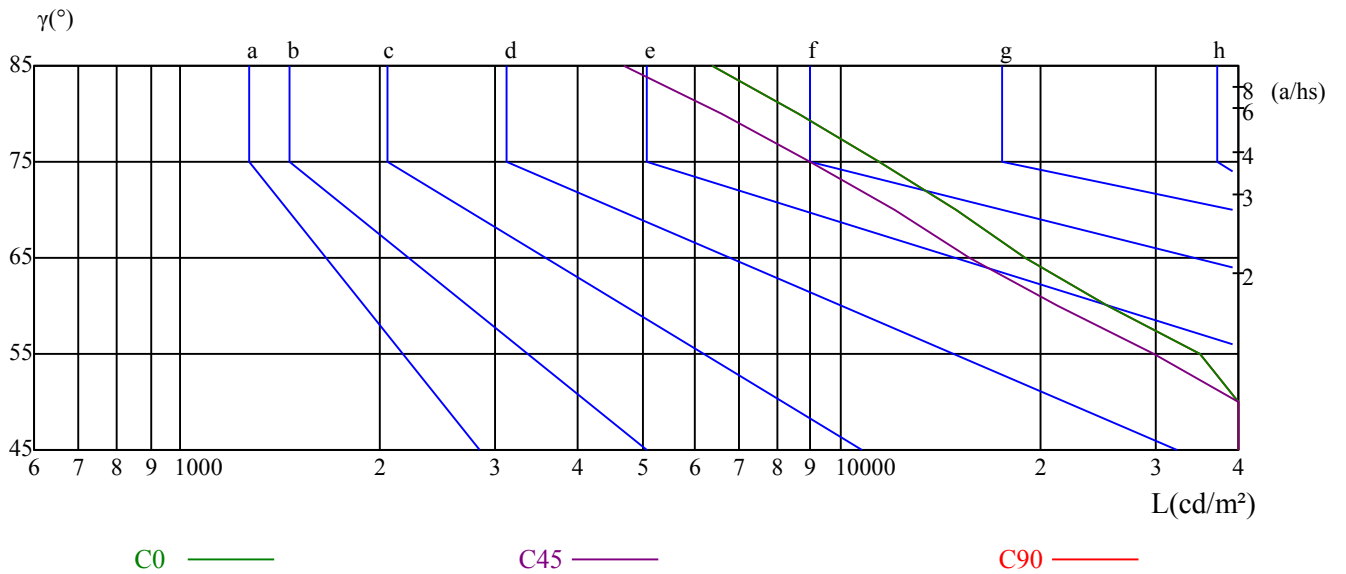
γ	45	50	55	60	65	70	75	80	85
C0	81622	53206	35017	25386	19039	14965	11459	8614	6363
C45	71572	45981	29799	21246	15645	12046	9008	6584	4700
C90	81622	53206	35017	25386	19039	14965	11459	8614	6363

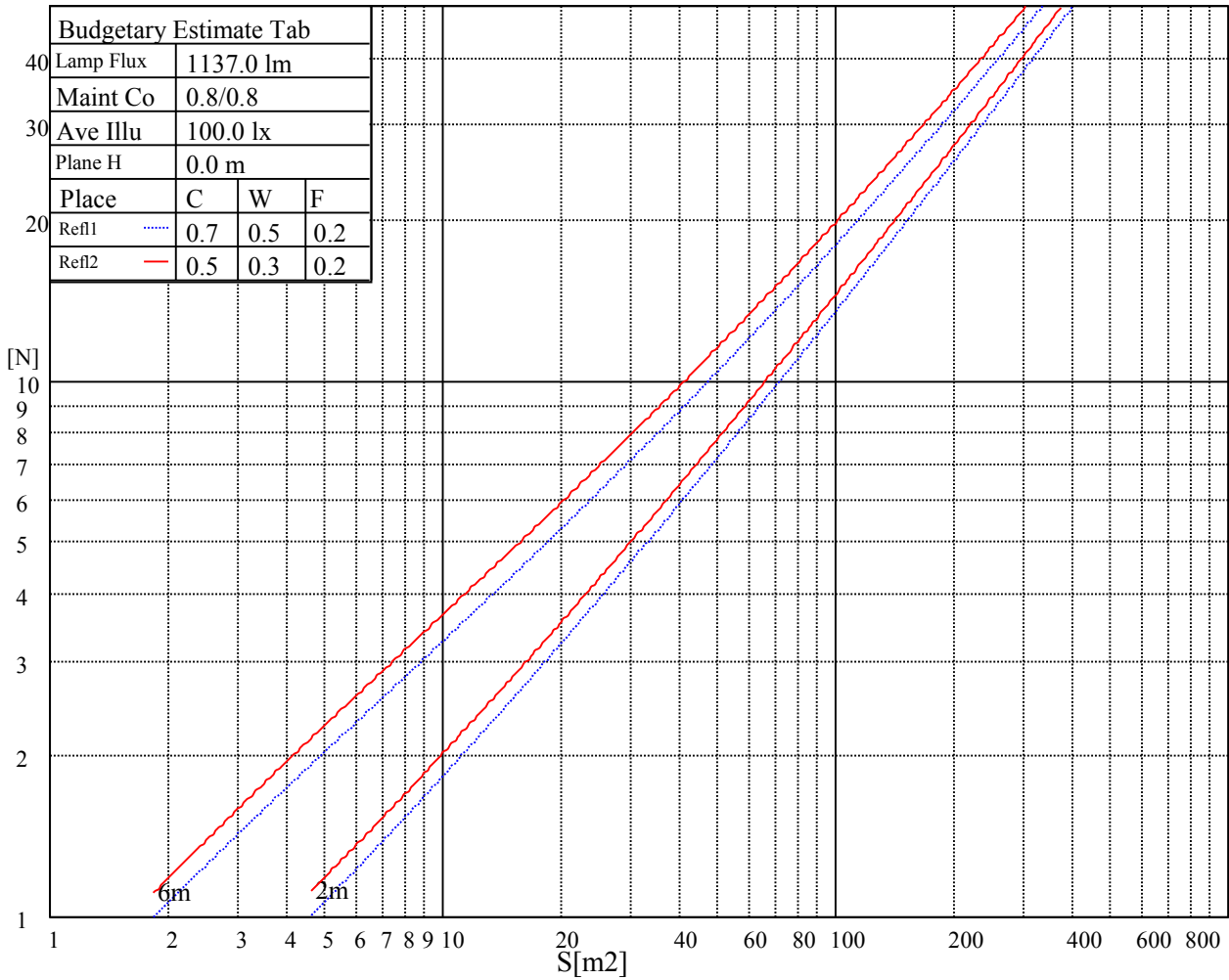
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
39977	39977	39977	33391	33391	33391	43660	43660	43660

Glare Table

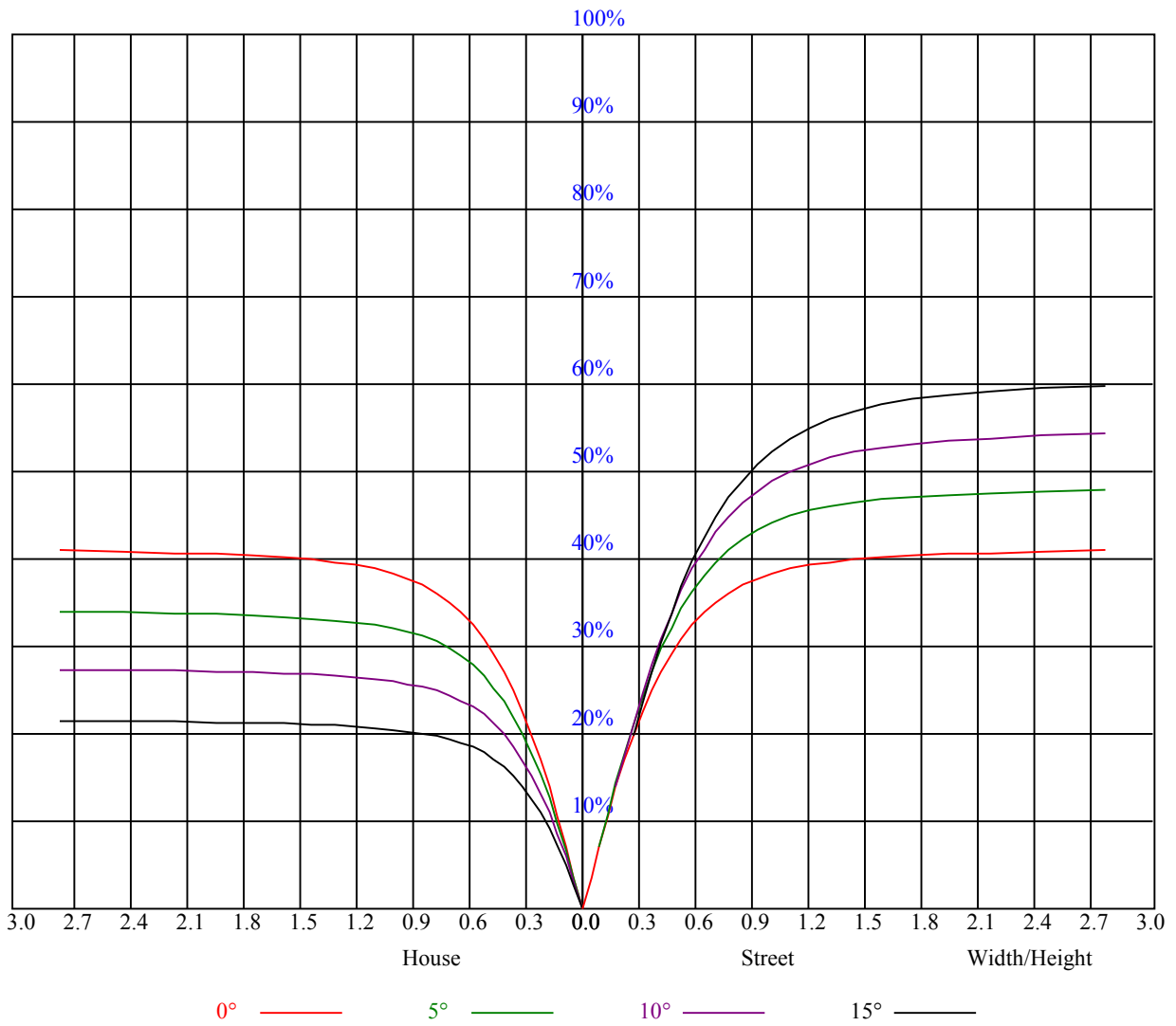
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.99	0.99	0.99	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.83
1	0.91	0.88	0.86	0.89	0.87	0.85	0.85	0.84	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.76
2	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.74	0.77	0.75	0.73	0.75	0.73	0.71	0.70
3	0.78	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.72	0.69	0.67	0.70	0.68	0.66	0.64
4	0.72	0.67	0.63	0.71	0.67	0.63	0.69	0.65	0.62	0.68	0.64	0.61	0.66	0.63	0.61	0.59
5	0.68	0.62	0.58	0.67	0.62	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.62	0.59	0.57	0.55
6	0.63	0.58	0.54	0.63	0.58	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.52
7	0.60	0.54	0.51	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.50	0.48
8	0.56	0.51	0.47	0.56	0.51	0.47	0.55	0.50	0.47	0.54	0.50	0.47	0.53	0.49	0.47	0.46
9	0.53	0.48	0.45	0.53	0.48	0.45	0.52	0.48	0.44	0.51	0.47	0.44	0.51	0.47	0.44	0.43
10	0.51	0.46	0.42	0.50	0.45	0.42	0.50	0.45	0.42	0.49	0.45	0.42	0.48	0.45	0.42	0.41



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	1156.73	1130.31	1027.90	856.68	689.31	549.46	432.74	329.24	254.42
45.0	1160.04	1106.08	959.63	782.35	607.82	481.74	382.09	290.15	208.22
90.0	1158.39	1060.94	889.27	696.30	547.26	418.87	315.69	237.79	163.57
135.0	1168.30	1092.87	945.32	764.18	600.67	467.43	374.93	281.34	189.12
180.0	1156.73	1082.52	942.40	774.53	620.76	491.16	374.55	268.51	183.34
225.0	1160.04	1094.91	990.52	818.25	652.47	510.15	407.47	305.23	215.38
270.0	1158.39	1152.88	1049.93	888.06	705.27	540.10	414.57	320.98	224.74
315.0	1168.30	1142.42	1022.18	847.04	688.32	535.86	419.97	310.74	232.06
360.0	1156.73	1130.31	1027.90	856.68	689.31	549.46	432.74	329.24	254.42
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	159.94	99.16	60.34	41.57	28.96	21.20	15.47	10.57	6.72
45.0	129.33	80.27	53.18	36.28	25.60	18.66	12.94	8.64	5.51
90.0	100.86	66.01	43.82	31.16	22.08	16.13	10.79	6.77	4.57
135.0	120.68	75.81	48.50	33.75	24.06	17.29	11.84	7.93	4.96
180.0	115.95	72.45	45.92	32.65	22.96	16.63	11.73	7.87	5.29
225.0	138.58	85.83	53.46	36.23	25.93	18.72	13.16	9.08	6.17
270.0	147.11	97.73	59.35	40.30	28.24	20.92	14.70	10.19	6.39
315.0	149.97	93.21	58.80	39.70	27.75	20.48	14.53	10.08	6.72
360.0	159.94	99.16	60.34	41.57	28.96	21.20	15.47	10.57	6.72
C/γ(°)	90.0								
0.0	4.40								
45.0	4.02								
90.0	4.02								
135.0	3.85								
180.0	3.80								
225.0	4.29								
270.0	4.24								
315.0	4.51								
360.0	4.40								