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Nata

LumCAT: LN01D05036DA-N

Luminaire: 97.70.234.00

Report No: 210106-B009

Test No: 210106-C009

LampCAT: TRIDONIC SLE G7 9MM

Lamp flux(lm): 1978.0

Number of Lamps: 1

Length(mm): 92

Phm Type: C

Voltage(V): 36.1600

Current(A): 0.3810

Power (W): 13.7760

PF: 0.0000

Ballast type: DC

Width(mm): 92

Height(mm): 50

Photometric Results

Lumens(lm): 1829.22

Efficiency(%): 92.48%

Lumens(lm)/Power(W): 132.78

Central intensity(cd): 3585.656

Maximum intensity(cd): 3585.656

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=40.9

[C90/270]Total=40.9

Field angle(10%Imax): [C0/180]Total=64.4

[C90/270]Total=64.4

Maximum s/h(1/2): C0_180=0.67 C90_270=0.67

Maximum s/h(1/4): C0_180=0.63 C90_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.48%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.900%

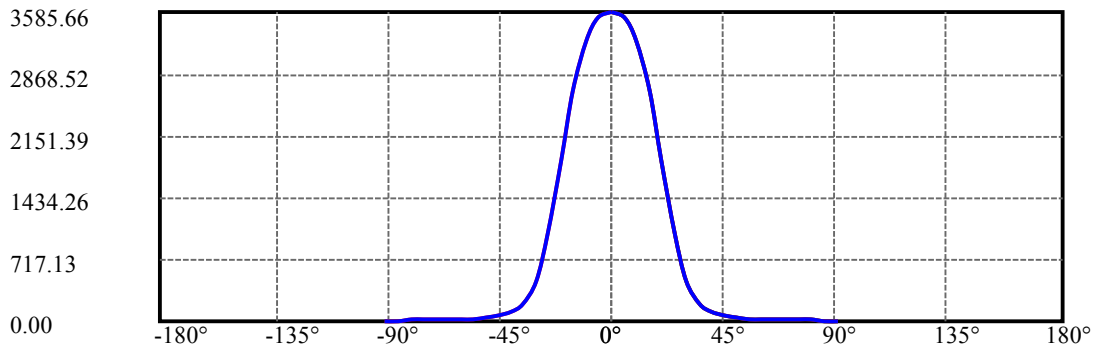
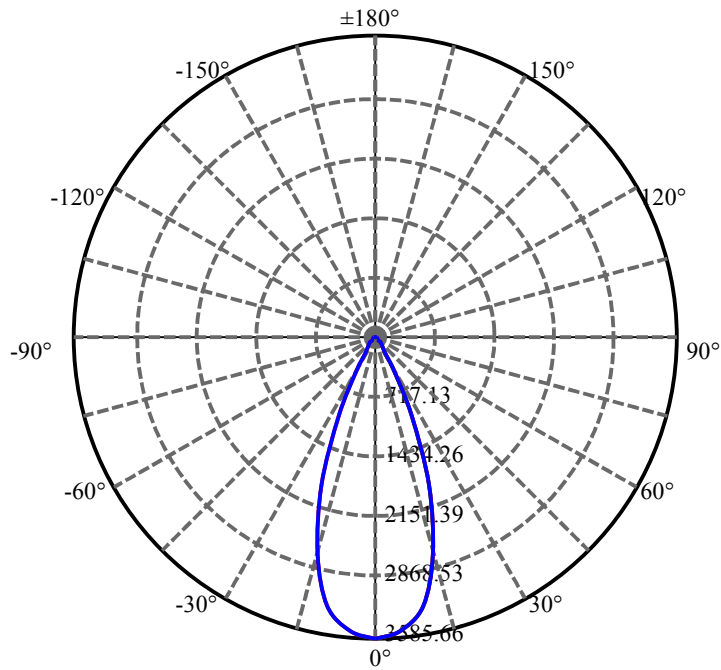
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3585.656	0.000	0	.000%	.000%
5.0	3510.422	84.832	84.832	4.289%	4.638%
10.0	3243.094	241.595	326.426	12.214%	17.845%
15.0	2664.914	350.459	676.885	17.718%	37.004%
20.0	1869.328	373.685	1050.57	18.892%	57.433%
25.0	1020.973	303.139	1353.71	15.326%	74.005%
30.0	474.420	189.243	1542.953	9.567%	84.350%
35.0	210.108	100.801	1643.754	5.096%	89.861%
40.0	102.558	52.166	1695.92	2.637%	92.713%
45.0	60.096	30.117	1726.037	1.523%	94.359%
50.0	40.120	20.250	1746.287	1.024%	95.466%
55.0	27.928	14.796	1761.083	.748%	96.275%
60.0	21.572	11.442	1772.525	.578%	96.900%
65.0	17.705	9.548	1782.073	.483%	97.422%
70.0	18.731	9.226	1791.299	.466%	97.927%
75.0	23.632	11.073	1802.372	.560%	98.532%
80.0	22.964	12.468	1814.84	.630%	99.214%
85.0	10.786	9.171	1824.01	.464%	99.715%
90.0	8.255	5.213	1829.224	.264%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1542.95	78.01%	84.35%
0-40	1695.92	85.74%	92.71%
0-60	1772.52	89.61%	96.90%
0-90	1824.01	92.21%	99.71%
0-120	1824.01	92.21%	99.71%
0-180	1829.22	92.48%	100.00%
60-90	62.93	3.18%	3.44%
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%
0-27.90	1463.38	73.98%	80.00%

ZONAL LUMEN SUMMARY

0-10	326.43
10-20	724.14
20-30	492.38
30-40	152.97
40-50	50.37
50-60	26.24
60-70	18.77
70-80	23.54
80-90	9.17
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: —————

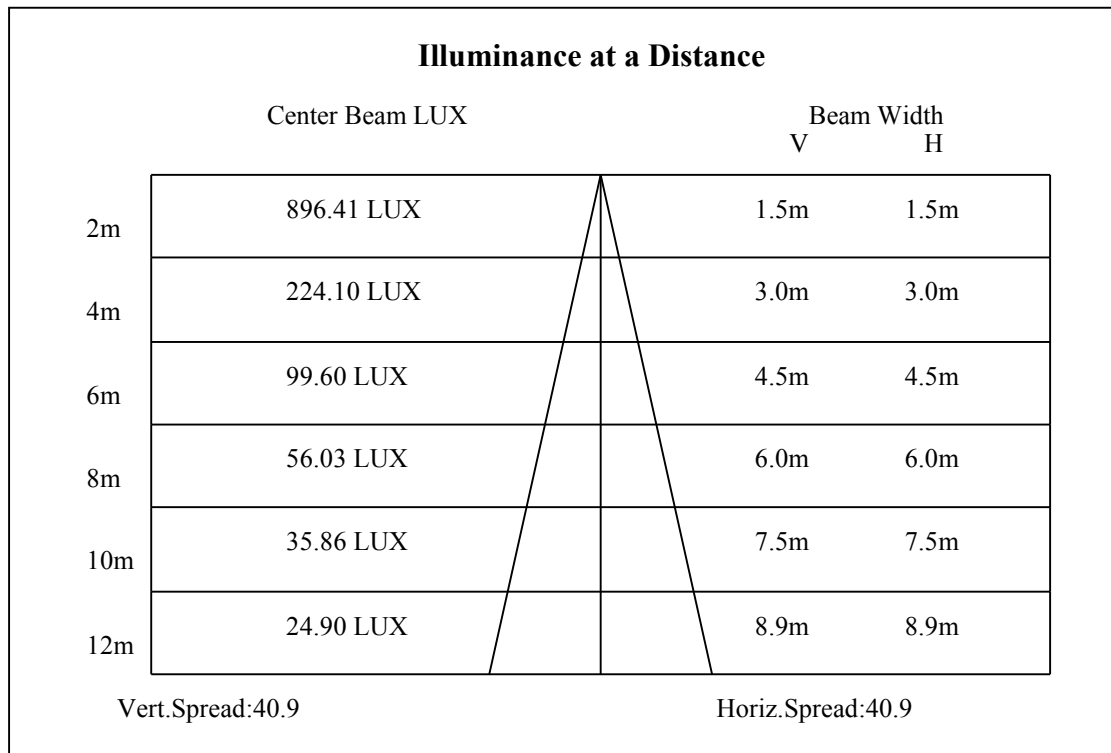
C90/C270: —————

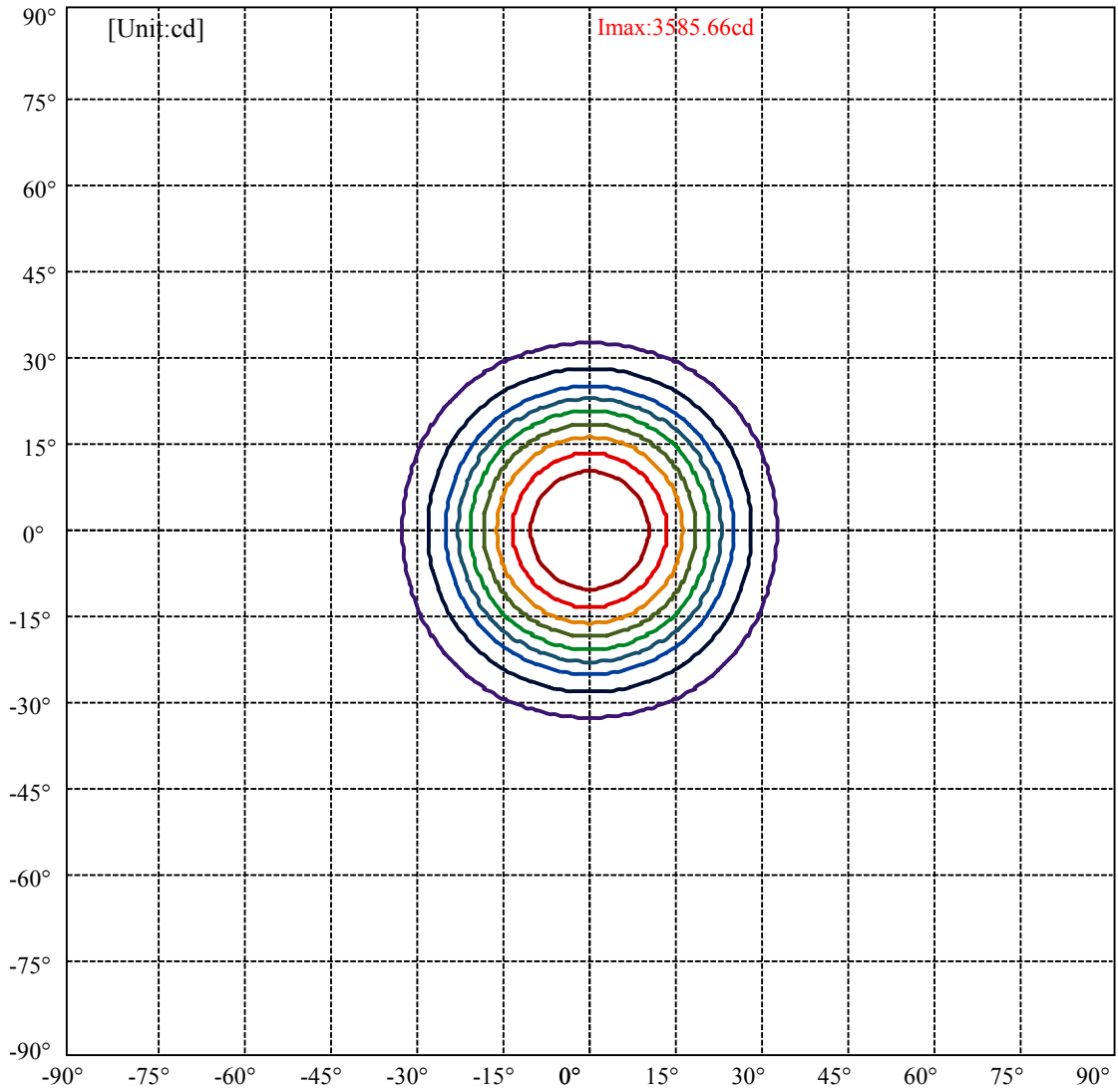
Field angle(10%Imax):C0/180Left:32.2 Right:32.2

:C90/270Left:32.2 Right:32.2

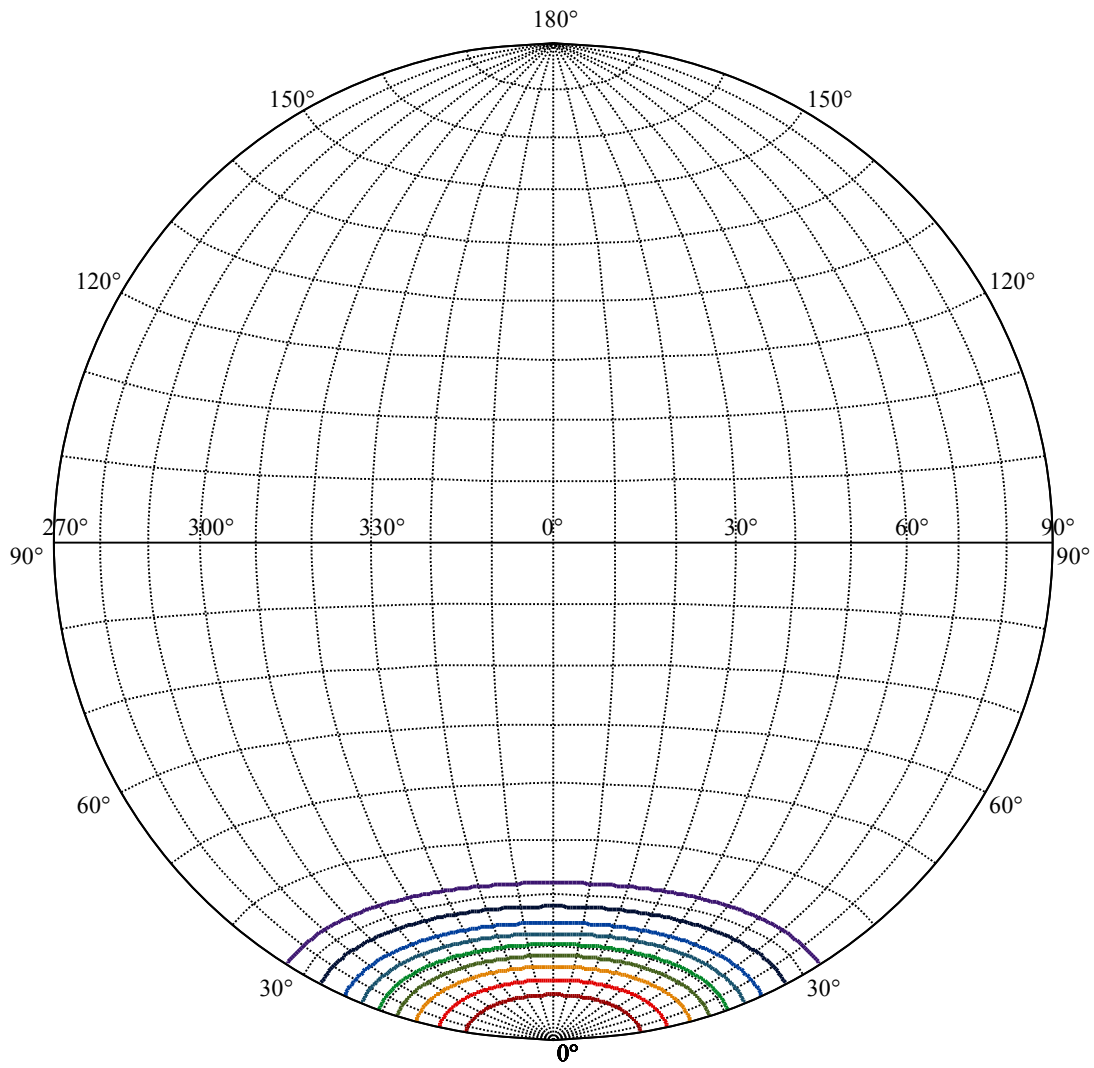
Beam Angle(50%Imax):C0/180Left:20.5 Right:20.5

:C90/270Left:20.5 Right:20.5





(10%Imax) 358.566	—
(20%Imax) 717.131	—
(30%Imax) 1075.7	—
(40%Imax) 1434.26	—
(50%Imax) 1792.83	—
(60%Imax) 2151.39	—
(70%Imax) 2509.96	—
(80%Imax) 2868.52	—
(90%Imax) 3227.09	—



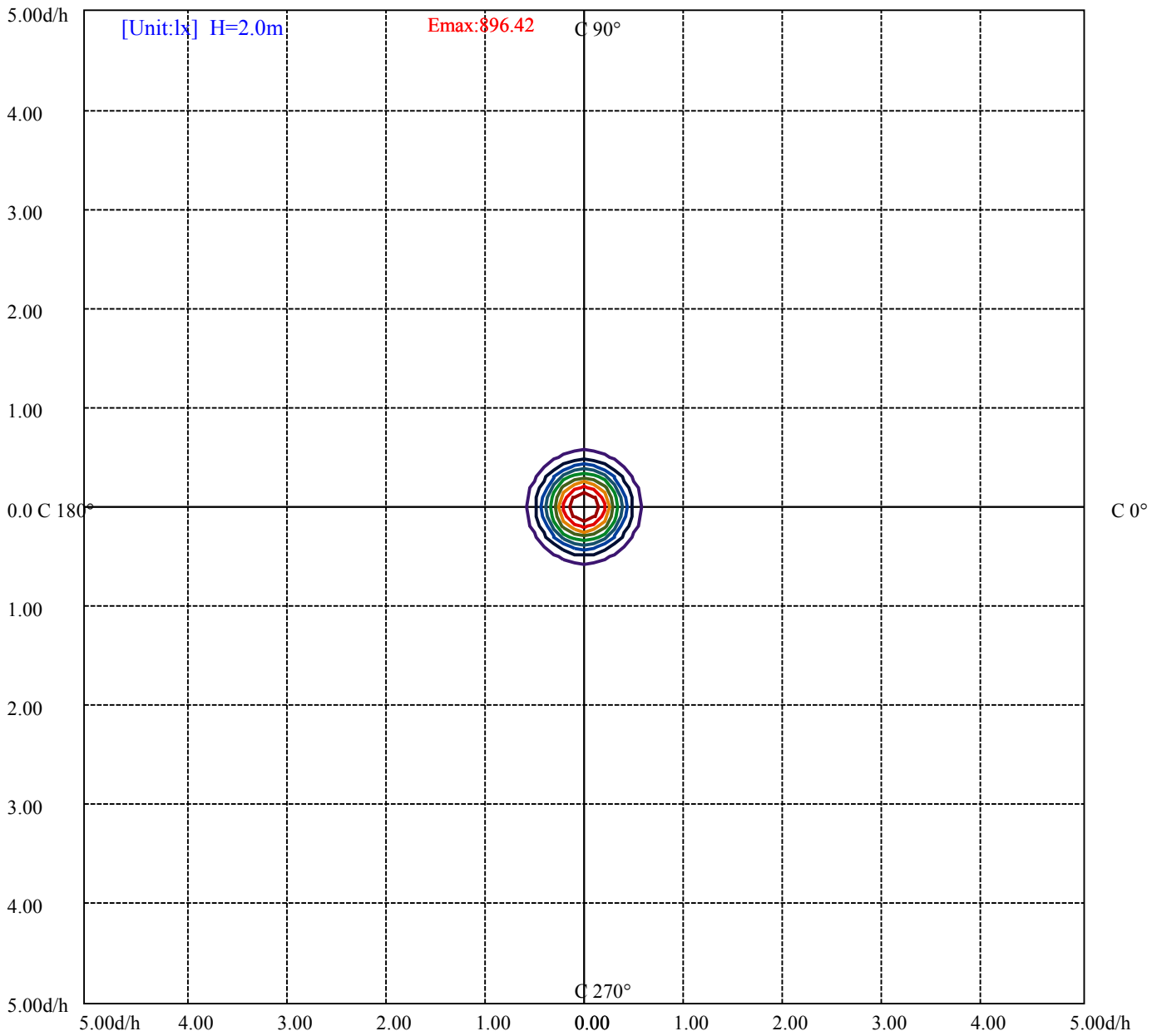
House

[Unit:cd]

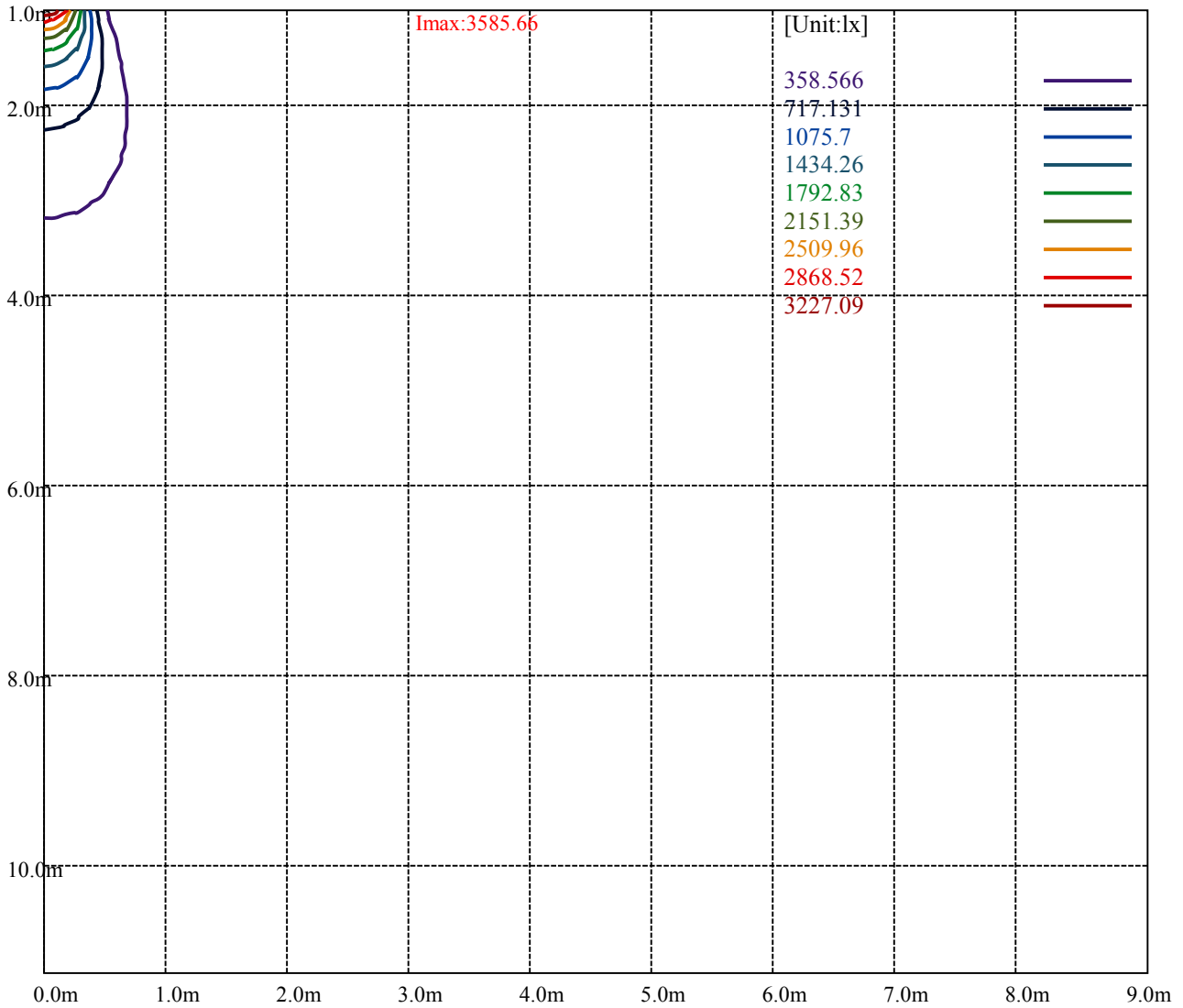
Road

Imax:3585.66

(10%Imax) 358.566	—
(20%Imax) 717.131	—
(30%Imax) 1075.7	—
(40%Imax) 1434.26	—
(50%Imax) 1792.83	—
(60%Imax) 2151.39	—
(70%Imax) 2509.96	—
(80%Imax) 2868.52	—
(90%Imax) 3227.09	—



- (10%Emax) 89.64125
- (20%Emax) 179.2827
- (30%Emax) 268.925
- (40%Emax) 358.565
- (50%Emax) 448.2075
- (60%Emax) 537.8475
- (70%Emax) 627.49
- (80%Emax) 717.13
- (90%Emax) 806.7725



Luminance Table

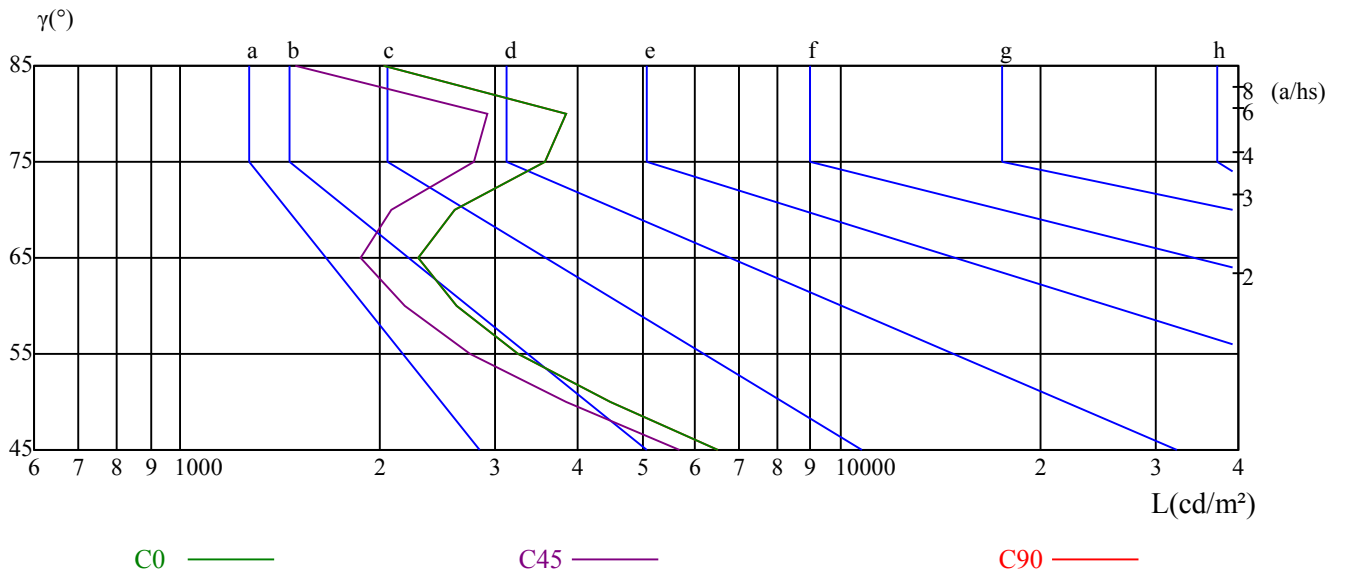
γ	45	50	55	60	65	70	75	80	85
C0	6506	4476	3239	2626	2286	2595	3562	3827	2027
C45	5678	3849	2742	2187	1869	2079	2789	2916	1494
C90	6506	4476	3239	2626	2286	2595	3562	3827	2027

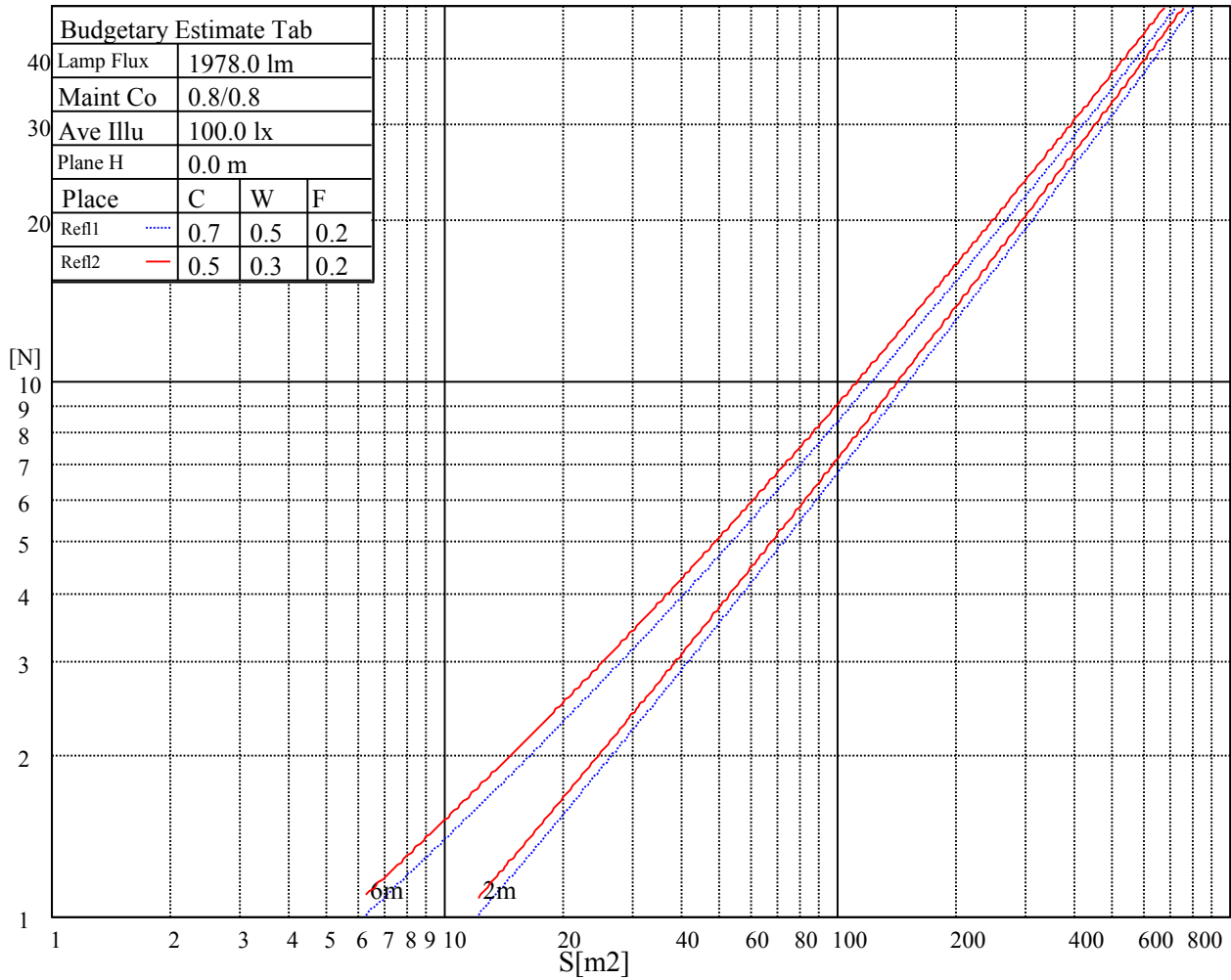
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4950	4950	4950	10788	10788	10788	14621	14621	14621

Glare Table

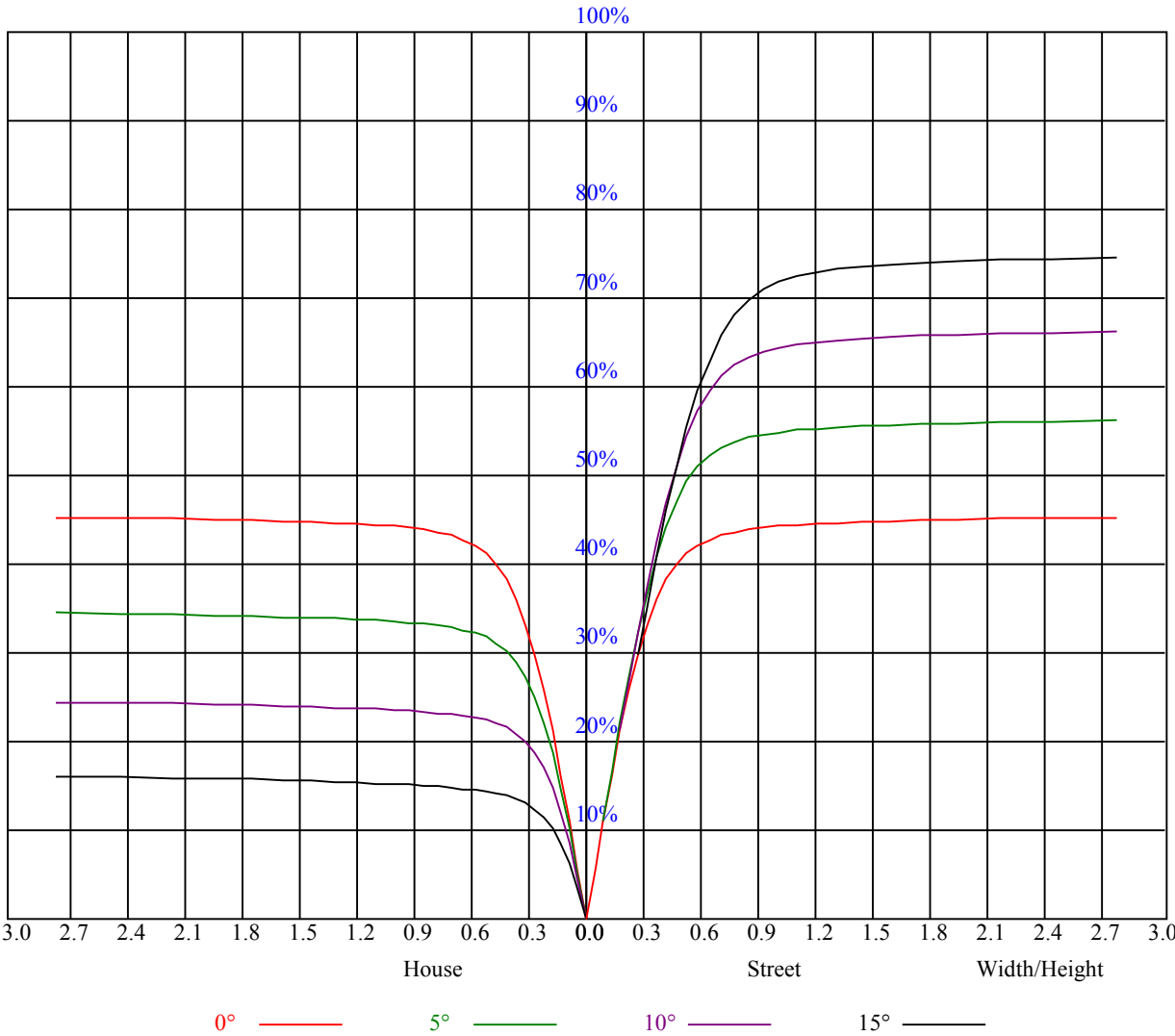
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.81
3	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.77
4	0.86	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.69
6	0.77	0.72	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
7	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.63
8	0.70	0.65	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.60
9	0.67	0.62	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.59	0.57
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55



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	3585.38	3509.44	3279.38	2664.00	1784.81	933.75	439.88	186.92	95.06
45.0	3594.38	3479.06	3169.13	2538.56	1843.88	967.50	449.44	195.24	99.39
90.0	3578.06	3458.25	3130.31	2561.63	1780.88	959.51	462.60	198.00	99.23
135.0	3584.81	3526.88	3327.75	2851.88	2111.63	1320.75	600.19	291.38	130.89
180.0	3585.38	3520.69	3288.38	2733.75	1932.19	1088.66	499.28	212.96	109.01
225.0	3594.38	3551.06	3270.94	2713.50	1914.75	1020.99	490.73	205.76	104.57
270.0	3578.06	3541.50	3304.13	2724.75	1918.69	1065.38	483.75	233.16	102.09
315.0	3584.81	3496.50	3174.75	2531.25	1667.81	811.24	369.51	157.44	80.21
360.0	3585.38	3509.44	3279.38	2664.00	1784.81	933.75	439.88	186.92	95.06
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	58.78	39.43	27.68	21.49	17.55	15.19	12.99	11.14	9.45
45.0	59.57	40.05	28.52	21.94	17.94	15.64	13.22	11.48	9.62
90.0	59.68	40.16	28.29	21.60	17.94	15.36	12.99	11.36	9.45
135.0	67.22	43.82	28.69	21.94	17.78	24.36	49.44	64.69	18.23
180.0	62.72	41.40	28.18	22.11	17.78	15.24	13.05	11.19	9.68
225.0	62.33	42.13	29.19	22.22	18.28	15.86	13.44	11.70	10.35
270.0	60.47	40.33	28.74	21.94	17.66	15.36	13.11	11.25	9.62
315.0	50.01	33.64	24.13	19.35	16.71	32.85	60.81	50.91	9.90
360.0	58.78	39.43	27.68	21.49	17.55	15.19	12.99	11.14	9.45
C/γ(°)	90.0								
0.0	8.04								
45.0	8.44								
90.0	8.33								
135.0	8.27								
180.0	8.10								
225.0	8.44								
270.0	8.27								
315.0	8.16								
360.0	8.04								