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## Nata

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LumCAT: 1-0943-N	
Luminaire: 92.70.360.00	
Report No: 220511-B005	Voltage(V): 35.8400
Test No: 220511-C005	Current(A): 0.2010
LampCAT: LUMILEDS 1202 LES6.5	Power (W): 7.2030
Lamp flux(lm): 910.1	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): 750.07  
Efficiency(%): 82.42%  
Lumens(lm)/Power(W): 104.13  
Central intensity(cd): 1502.337  
Maximum intensity(cd): 1502.337  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=42.8  
                                  [C90/270]Total=42.8  
Field angle(10%Imax): [C0/180]Total=63.3  
                                  [C90/270]Total=63.3  
Maximum s/h(1/2): C0\_180=0.70 C90\_270=0.70  
Maximum s/h(1/4): C0\_180=0.66 C90\_270=0.66  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 82.42%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.008%

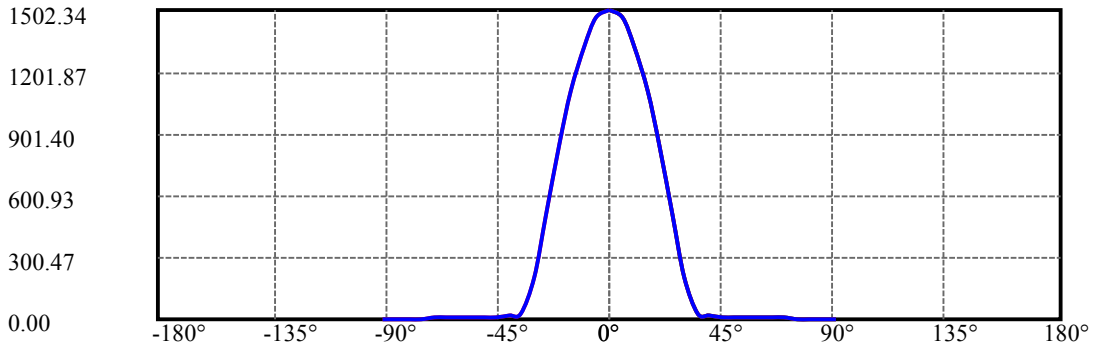
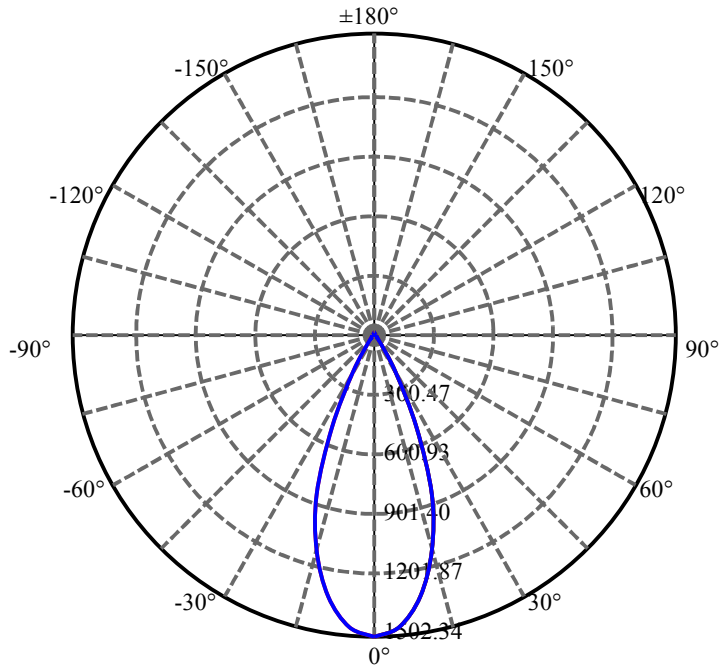
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1502.337	0.000	0	.000%	.000%
5.0	1464.320	35.466	35.466	3.897%	4.728%
10.0	1321.943	99.673	135.139	10.952%	18.017%
15.0	1113.958	144.496	279.635	15.877%	37.281%
20.0	845.772	161.509	441.144	17.747%	58.814%
25.0	505.614	141.736	582.88	15.574%	77.710%
30.0	209.270	90.469	673.349	9.941%	89.771%
35.0	28.868	35.067	708.416	3.853%	94.446%
40.0	16.970	7.648	716.064	.840%	95.466%
45.0	13.609	5.662	721.726	.622%	96.221%
50.0	11.338	5.041	726.767	.554%	96.893%
55.0	9.262	4.479	731.246	.492%	97.490%
60.0	7.536	3.883	735.129	.427%	98.008%
65.0	6.102	3.316	738.444	.364%	98.450%
70.0	5.154	2.850	741.294	.313%	98.830%
75.0	4.489	2.520	743.815	.277%	99.166%
80.0	4.093	2.296	746.111	.252%	99.472%
85.0	3.660	2.107	748.218	.231%	99.753%
90.0	3.115	1.855	750.073	.204%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	673.35	73.99%	89.77%
0-40	716.06	78.68%	95.47%
0-60	735.13	80.78%	98.01%
0-90	748.22	82.21%	99.75%
0-120	748.22	82.21%	99.75%
0-180	750.07	82.42%	100.00%
60-90	16.97	1.86%	2.26%
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%
0-25.95	600.06	65.93%	80.00%

ZONAL LUMEN SUMMARY

0-10	135.14
10-20	306.01
20-30	232.20
30-40	42.72
40-50	10.70
50-60	8.36
60-70	6.17
70-80	4.82
80-90	2.11
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: —————

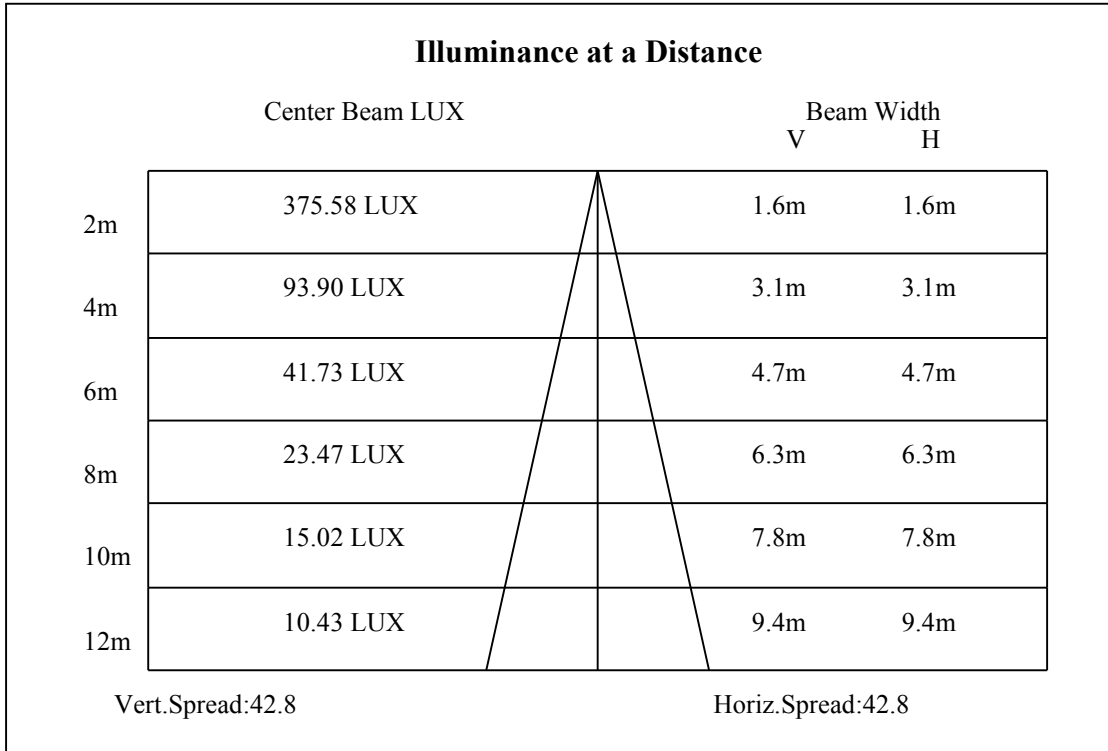
C90/C270: —————

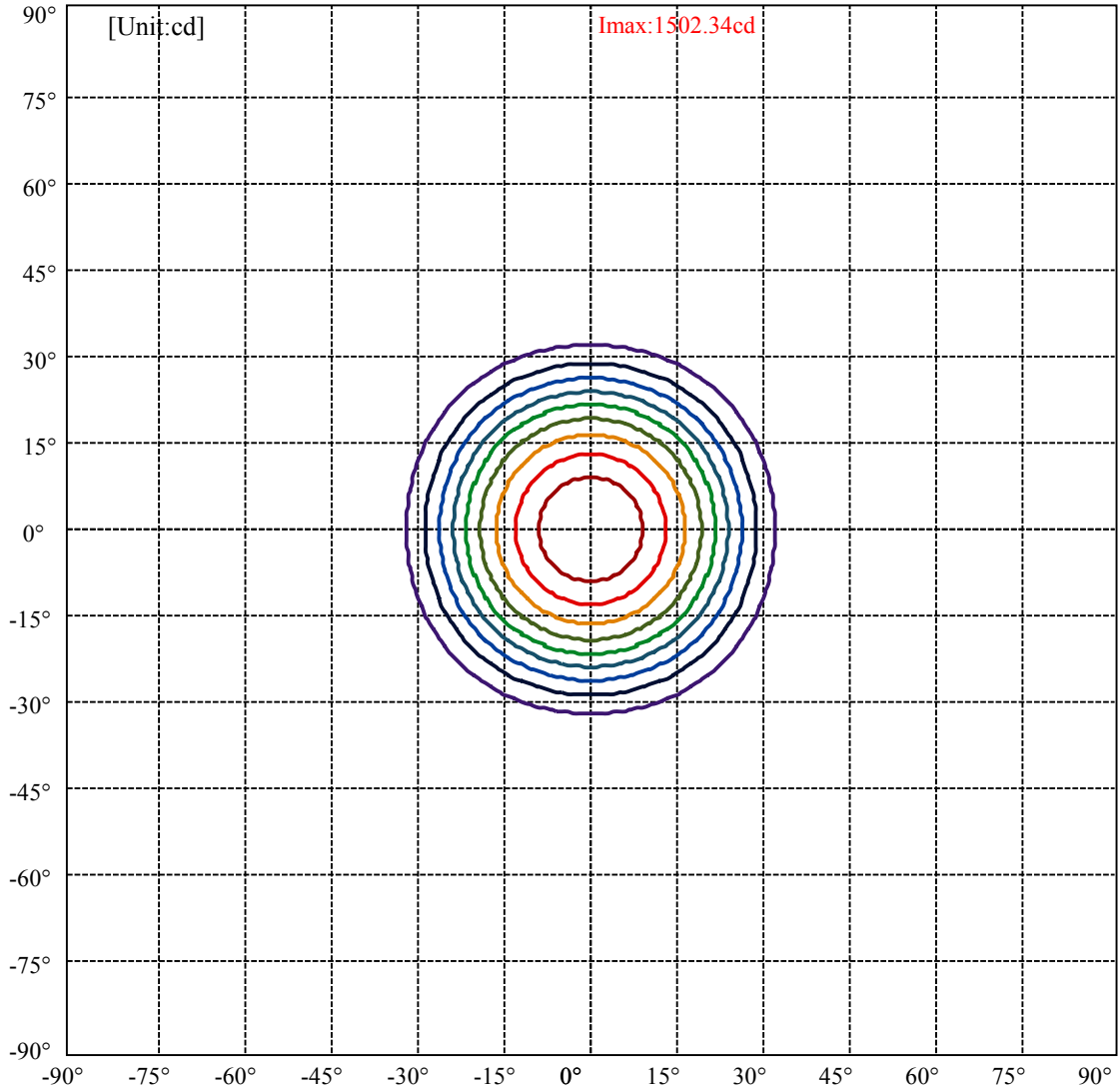
Field angle(10%Imax):C0/180Left:31.6 Right:31.6

:C90/270Left:31.6 Right:31.6

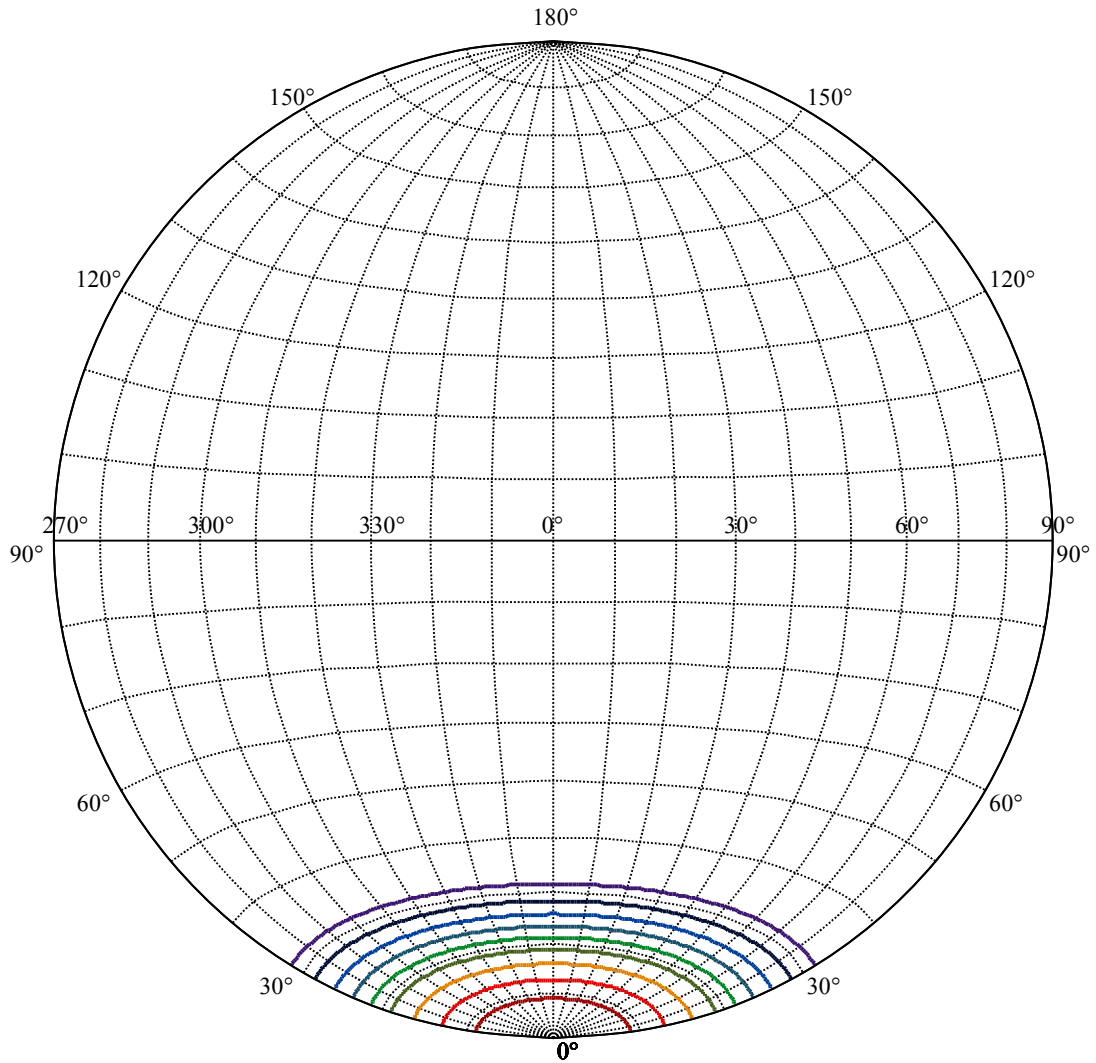
Beam Angle(50%Imax):C0/180Left:21.4 Right:21.4

:C90/270Left:21.4 Right:21.4





(10%Imax)	150.234	—
(20%Imax)	300.467	—
(30%Imax)	450.701	—
(40%Imax)	600.935	—
(50%Imax)	751.169	—
(60%Imax)	901.402	—
(70%Imax)	1051.64	—
(80%Imax)	1201.87	—
(90%Imax)	1352.1	—



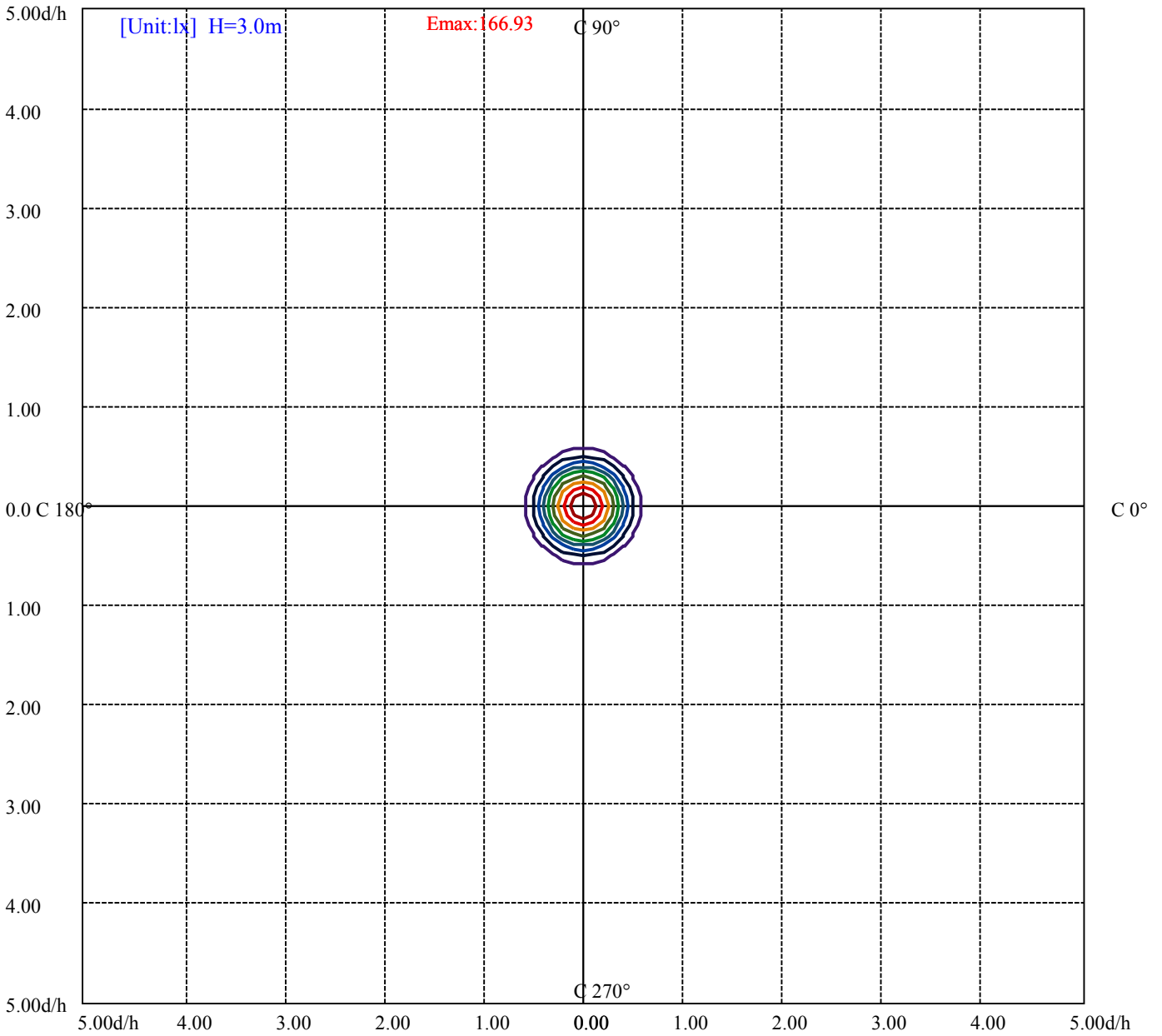
House

[Unit:cd]

Road

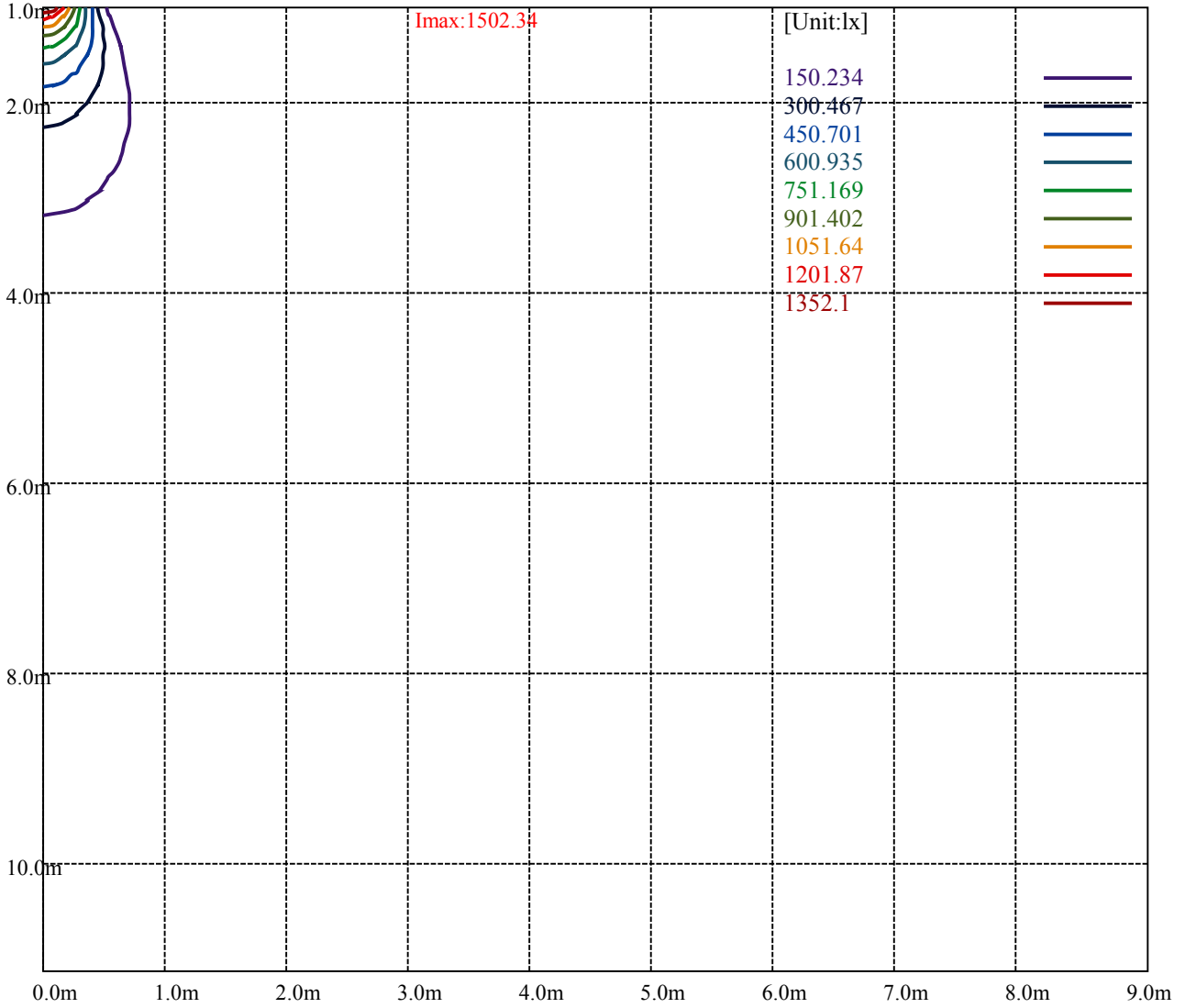
**Imax:1502.34**

(10%Imax)	150.234	—
(20%Imax)	300.467	—
(30%Imax)	450.701	—
(40%Imax)	600.935	—
(50%Imax)	751.169	—
(60%Imax)	901.402	—
(70%Imax)	1051.64	—
(80%Imax)	1201.87	—
(90%Imax)	1352.1	—



- (10%Emax) 16.69267
- (20%Emax) 33.38522
- (30%Emax) 50.07789
- (40%Emax) 66.77045
- (50%Emax) 83.46311
- (60%Emax) 100.1558
- (70%Emax) 116.8489
- (80%Emax) 133.5411
- (90%Emax) 150.2333





Luminance Table

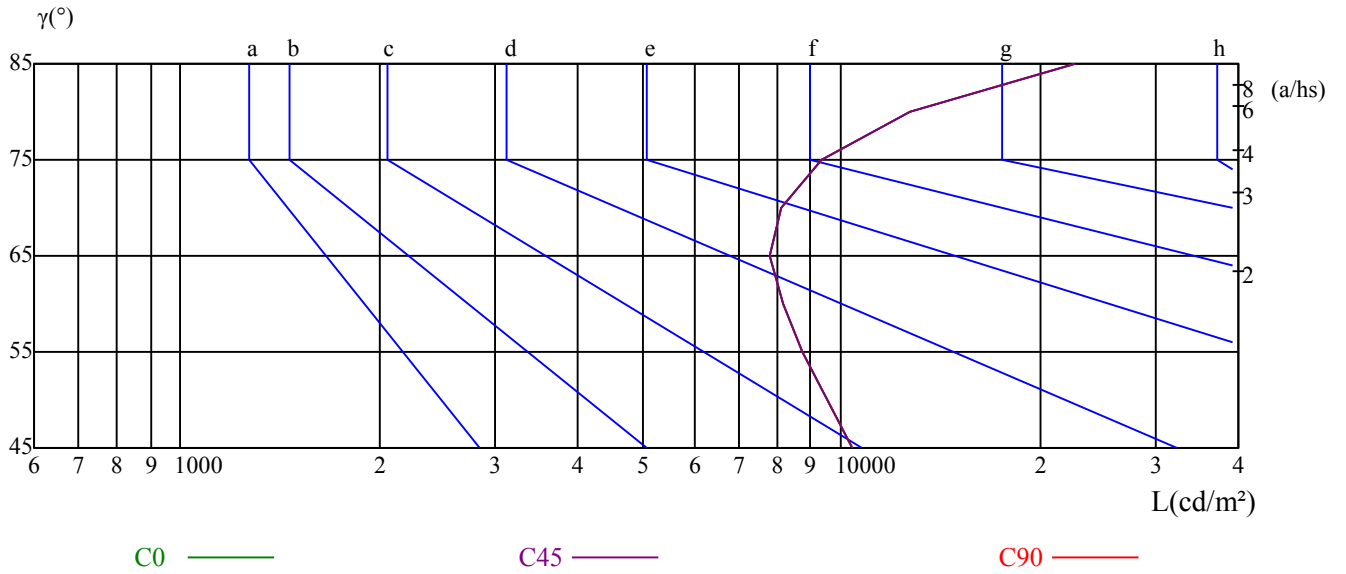
$\gamma$	45	50	55	60	65	70	75	80	85
C0	10409	9540	8733	8152	7809	8149	9380	12748	22711
C45	10409	9540	8733	8152	7809	8149	9380	12748	22711
C90	10409	9540	8733	8152	7809	8149	9380	12748	22711

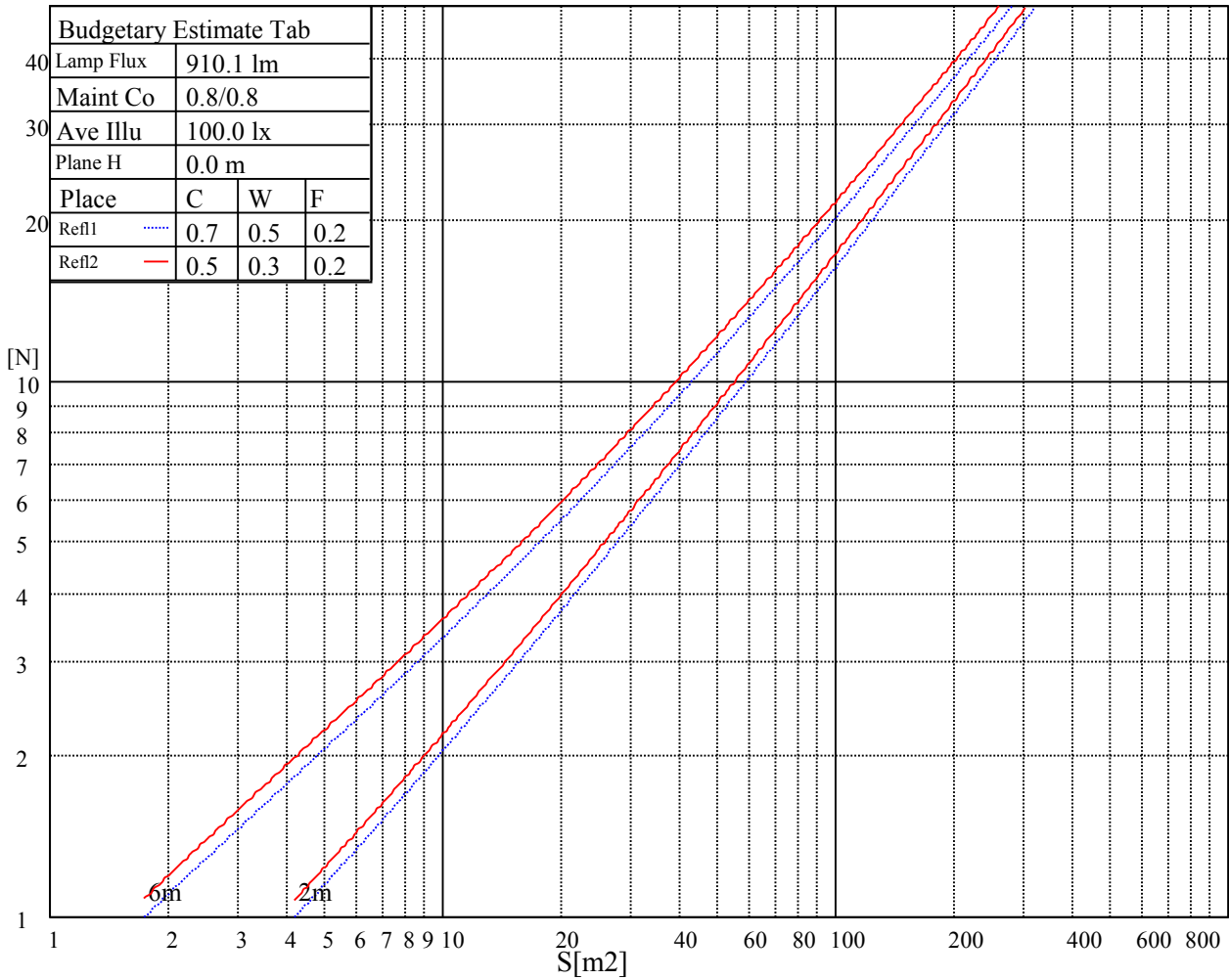
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7809	7809	7809	9380	9380	9380	22711	22711	22711

Glare Table

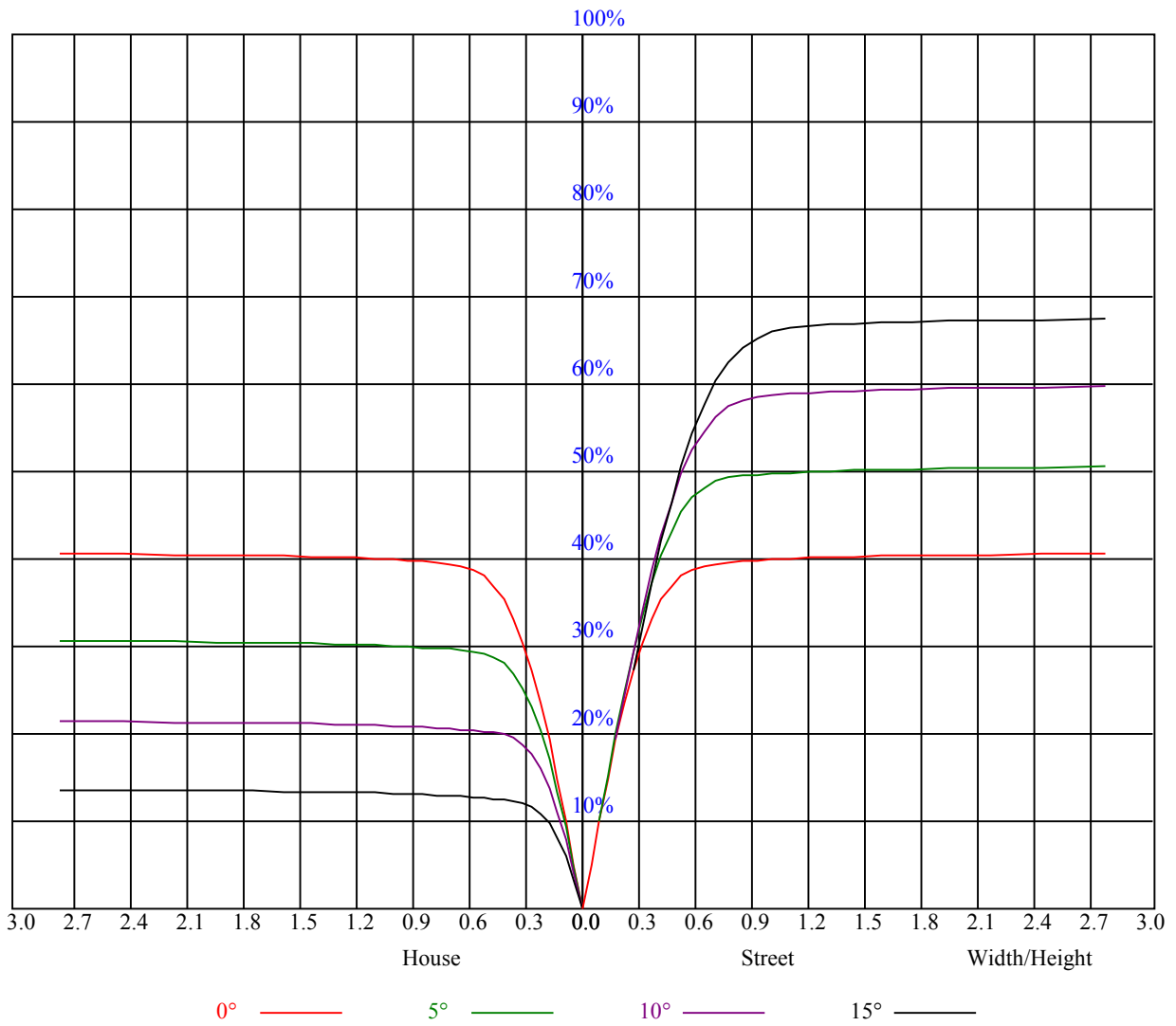
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.98	0.98	0.98	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.82
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.86	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.74
3	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.76	0.74	0.72	0.75	0.73	0.71	0.70
4	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.73	0.70	0.68	0.72	0.69	0.68	0.66
5	0.73	0.69	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
6	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.60
7	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58
8	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
9	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.51



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	1498.60	1489.04	1407.18	1198.64	949.47	623.22	311.31	46.13	19.24
45.0	1503.98	1462.15	1339.06	1115.59	841.92	522.24	310.72	26.59	16.91
90.0	1500.99	1445.42	1258.99	1040.60	765.79	421.92	119.92	21.81	15.72
135.0	1505.77	1457.37	1310.38	1096.47	814.43	460.10	149.74	22.59	15.89
180.0	1498.60	1432.28	1187.77	1031.45	724.44	387.86	93.10	19.90	15.30
225.0	1503.98	1468.13	1336.07	1117.38	843.71	486.81	175.73	25.28	16.61
270.0	1500.99	1481.27	1379.69	1174.14	935.73	593.94	301.75	39.68	17.99
315.0	1505.77	1478.88	1356.39	1137.40	890.68	548.83	211.88	28.98	18.11
360.0	1498.60	1489.04	1407.18	1198.64	949.47	623.22	311.31	46.13	19.24
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	14.76	12.13	9.92	8.19	6.51	5.44	4.66	4.18	3.59
45.0	13.56	11.29	9.32	7.47	6.04	5.14	4.48	4.00	3.41
90.0	12.79	10.76	8.72	7.11	5.80	4.96	4.42	4.12	3.29
135.0	13.09	10.93	8.90	7.29	5.98	5.02	4.42	4.06	3.35
180.0	12.67	10.58	8.60	7.05	5.68	4.84	4.24	3.82	3.29
225.0	13.56	11.29	9.32	7.53	6.15	5.14	4.48	4.12	3.47
270.0	14.22	12.01	9.74	7.95	6.45	5.44	4.66	4.30	5.26
315.0	14.22	11.71	9.56	7.71	6.21	5.26	4.54	4.12	3.64
360.0	14.76	12.13	9.92	8.19	6.51	5.44	4.66	4.18	3.59
C/γ(°)	90.0								
0.0	3.17								
45.0	3.11								
90.0	3.11								
135.0	3.11								
180.0	3.11								
225.0	3.11								
270.0	3.11								
315.0	3.11								
360.0	3.17								