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## Nata

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LumCAT: 1-1063-N	
Luminaire: 92.70.246.00	
Report No: 210630-B015	Voltage(V): 36.9600
Test No: 210630-C015	Current(A): 0.3050
LampCAT: Fortimo LED SLM 1202 G7N	Power (W): 11.2720
Lamp flux(lm): 1492.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

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## Photometric Results

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Lumens(lm): 1167.79  
Efficiency(%): 78.27%  
Lumens(lm)/Power(W): 103.60  
Central intensity(cd): 2265.328  
Maximum intensity(cd): 2265.328  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=42.9  
                                  [C90/270]Total=42.9  
Field angle(10%Imax): [C0/180]Total=63.9  
                                  [C90/270]Total=63.9  
Maximum s/h(1/2): C0\_180=0.69 C90\_270=0.69  
Maximum s/h(1/4): C0\_180=0.67 C90\_270=0.67  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 78.27%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.833%

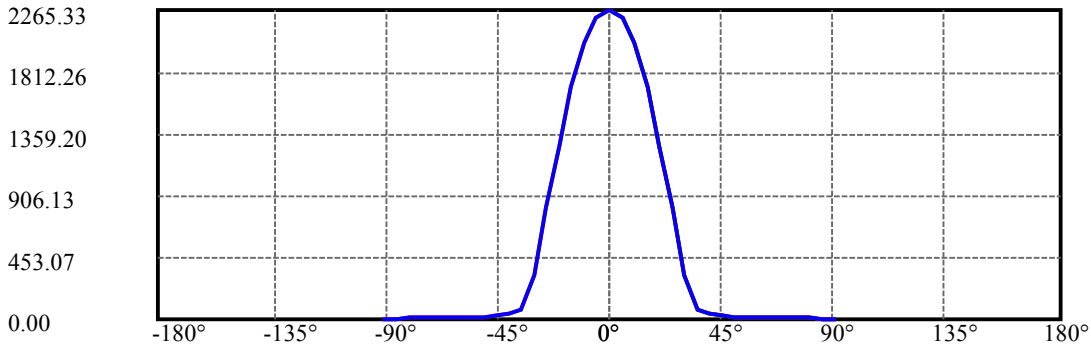
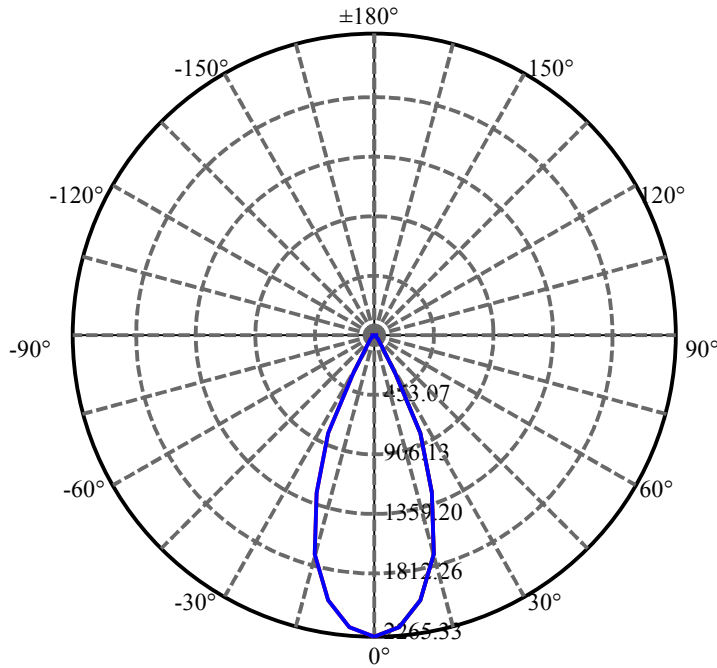
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2265.328	0.000	0	.000%	.000%
5.0	2204.227	53.432	53.432	3.581%	4.576%
10.0	2019.445	151.094	204.526	10.127%	17.514%
15.0	1705.992	220.990	425.517	14.811%	36.438%
20.0	1263.762	244.749	670.266	16.404%	57.396%
25.0	812.616	217.774	888.04	14.596%	76.045%
30.0	327.094	144.231	1032.271	9.667%	88.395%
35.0	66.417	57.947	1090.218	3.884%	93.358%
40.0	36.253	17.130	1107.348	1.148%	94.824%
45.0	25.840	11.497	1118.845	.771%	95.809%
50.0	20.130	9.289	1128.134	.623%	96.604%
55.0	15.743	7.800	1135.934	.523%	97.272%
60.0	12.607	6.553	1142.487	.439%	97.833%
65.0	10.280	5.564	1148.051	.373%	98.310%
70.0	8.972	4.875	1152.926	.327%	98.727%
75.0	8.114	4.466	1157.392	.299%	99.110%
80.0	7.059	4.060	1161.452	.272%	99.457%
85.0	5.611	3.443	1164.894	.231%	99.752%
90.0	4.957	2.894	1167.788	.194%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1032.27	69.19%	88.40%
0-40	1107.35	74.22%	94.82%
0-60	1142.49	76.57%	97.83%
0-90	1164.89	78.07%	99.75%
0-120	1164.89	78.07%	99.75%
0-180	1167.79	78.27%	100.00%
60-90	28.96	1.94%	2.48%
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%
0-26.60	934.23	62.61%	80.00%

ZONAL LUMEN SUMMARY

0-10	204.53
10-20	465.74
20-30	362.00
30-40	75.08
40-50	20.79
50-60	14.35
60-70	10.44
70-80	8.53
80-90	3.44
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: —————

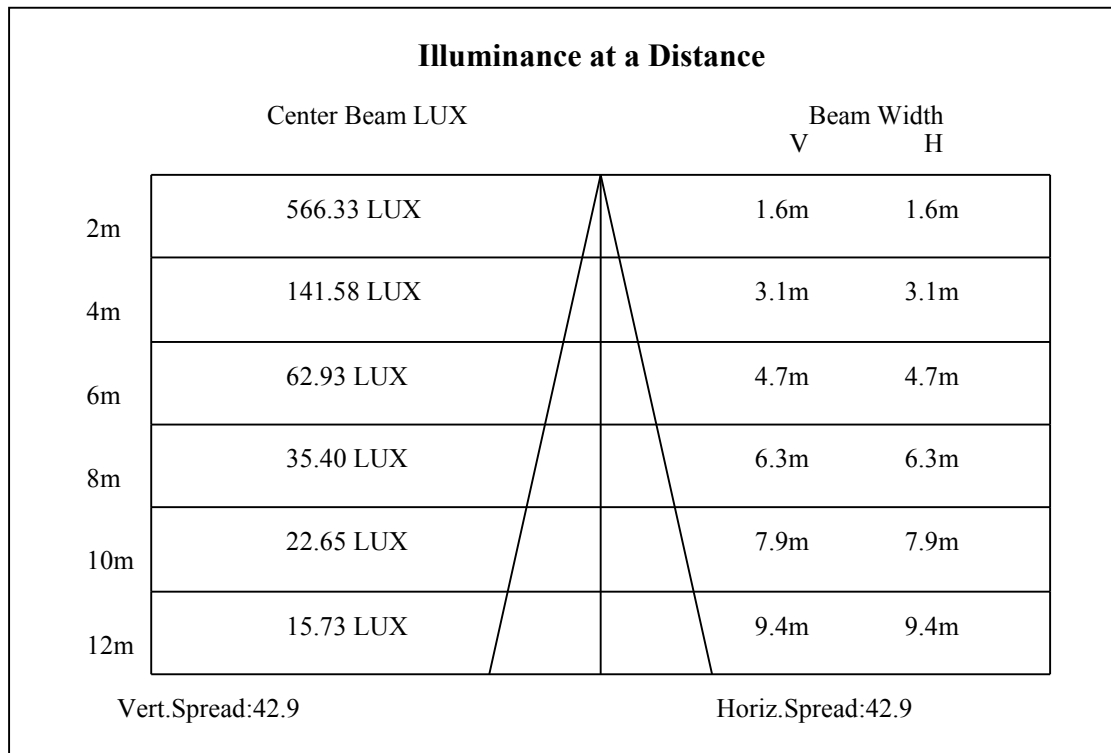
C90/C270: —————

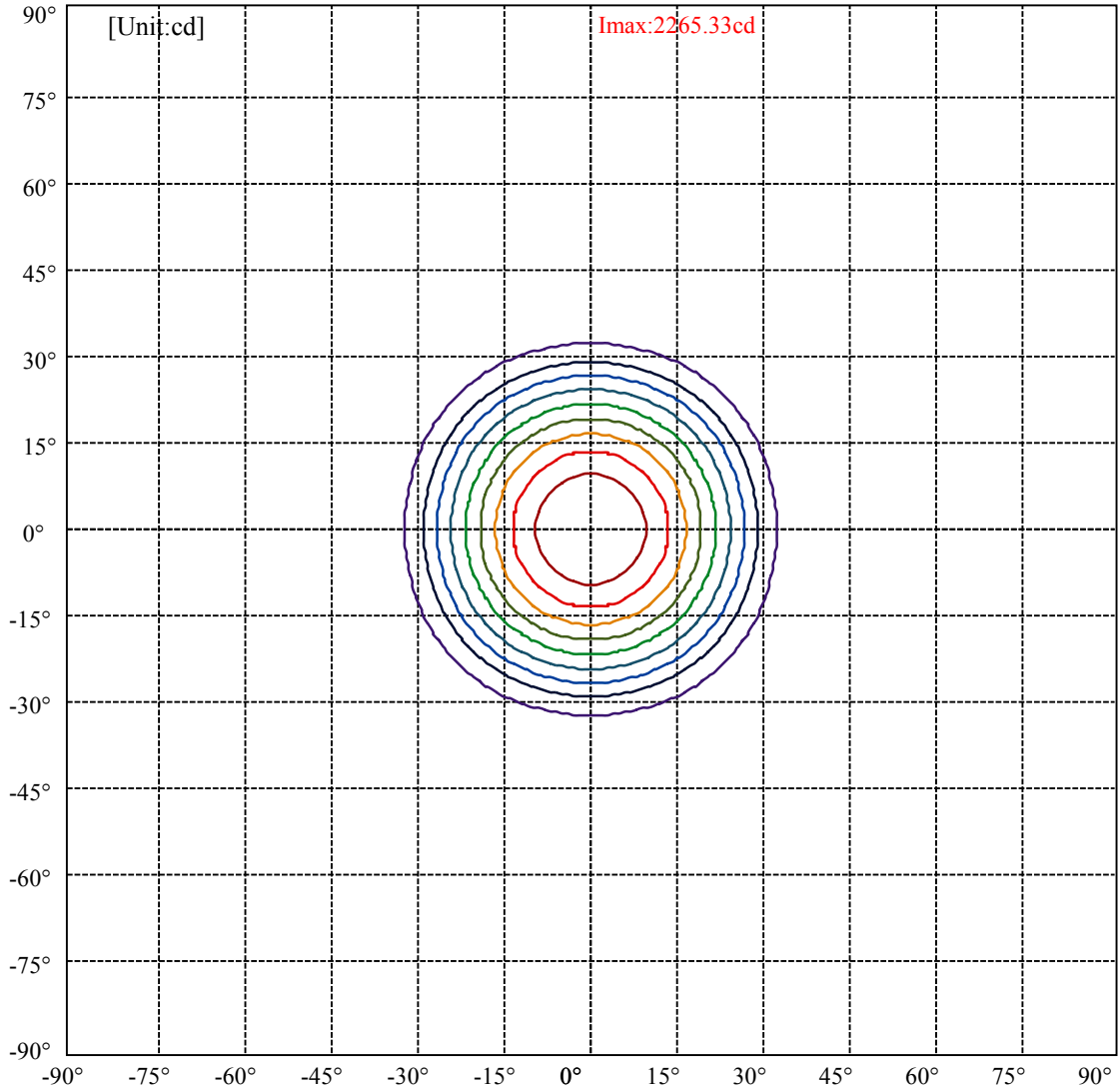
Field angle(10%Imax):C0/180Left:31.9 Right:31.9

:C90/270Left:31.9 Right:31.9

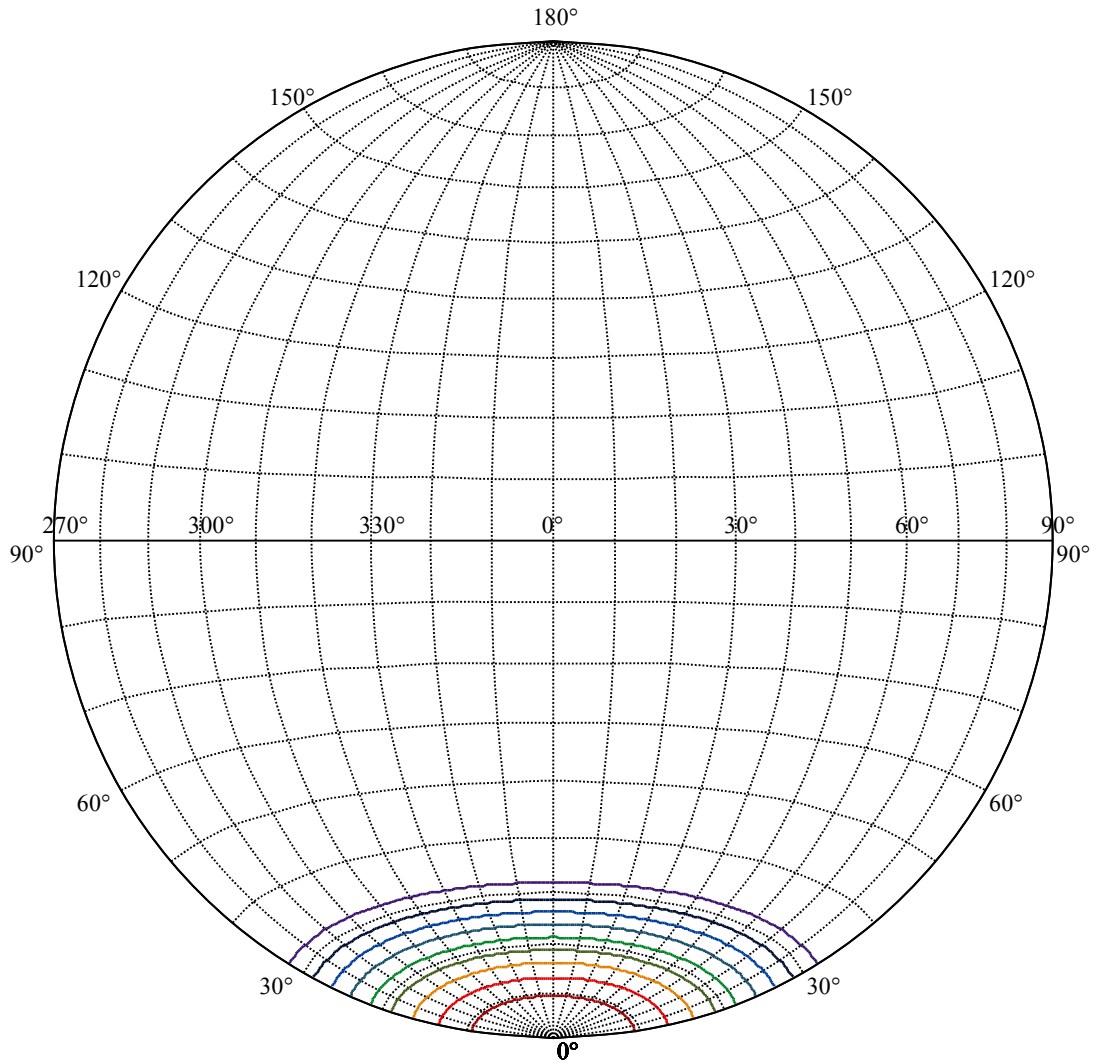
Beam Angle(50%Imax):C0/180Left:21.5 Right:21.5

:C90/270Left:21.5 Right:21.5





(10%Imax) 226.533	—
(20%Imax) 453.066	—
(30%Imax) 679.598	—
(40%Imax) 906.131	—
(50%Imax) 1132.66	—
(60%Imax) 1359.2	—
(70%Imax) 1585.73	—
(80%Imax) 1812.26	—
(90%Imax) 2038.8	—



House

[Unit:cd]

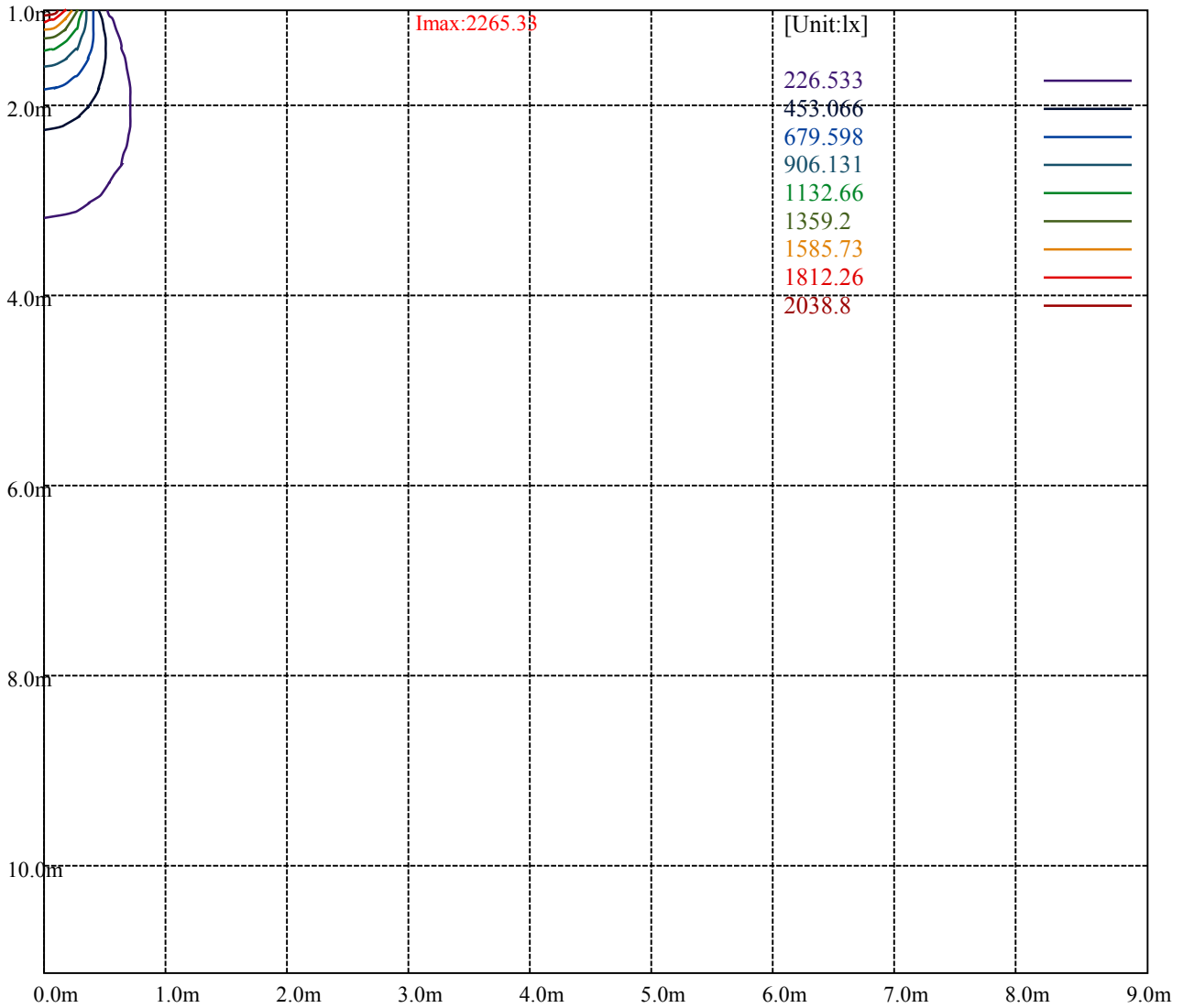
Road

I<sub>max</sub>:2265.33

(10%I <sub>max</sub> )	226.533	—
(20%I <sub>max</sub> )	453.066	—
(30%I <sub>max</sub> )	679.598	—
(40%I <sub>max</sub> )	906.131	—
(50%I <sub>max</sub> )	1132.66	—
(60%I <sub>max</sub> )	1359.2	—
(70%I <sub>max</sub> )	1585.73	—
(80%I <sub>max</sub> )	1812.26	—
(90%I <sub>max</sub> )	2038.8	—







Luminance Table

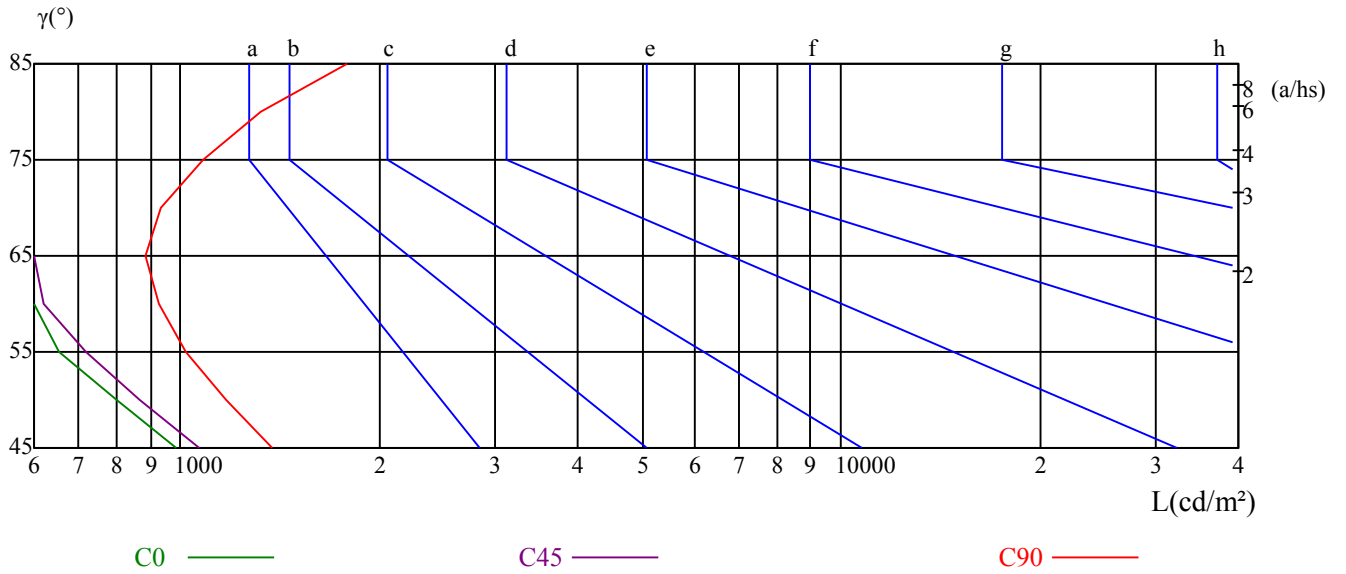
$\gamma$	45	50	55	60	65	70	75	80	85
C0	986	798	655	555	486	460	460	450	413
C45	1064	870	721	619	549	529	540	542	515
C90	1376	1172	1019	927	882	933	1081	1322	1791

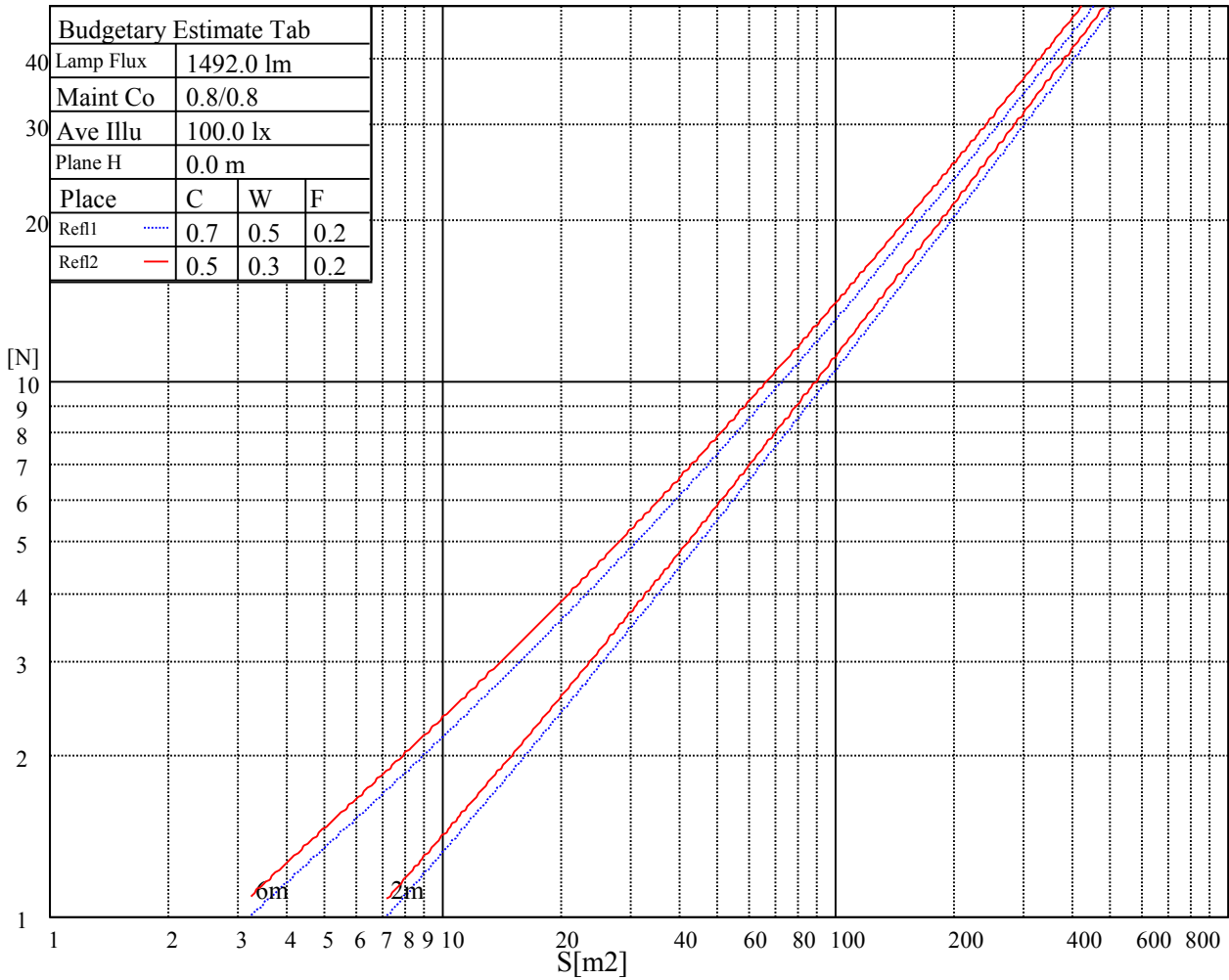
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
948	948	948	1222	1222	1222	2510	2510	2510

Glare Table

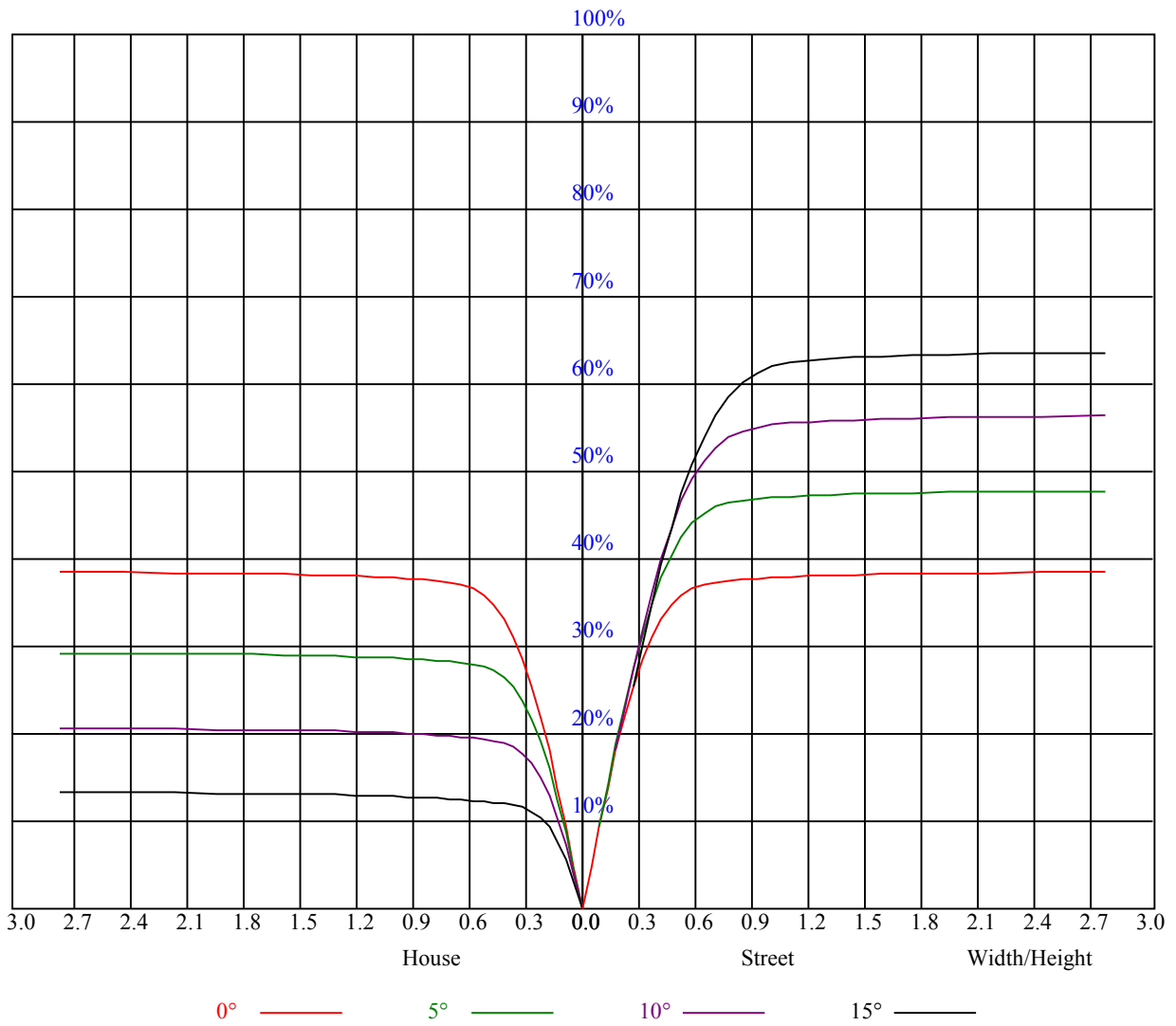
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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



Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2264.06	2243.25	2088.56	1820.25	1446.75	980.44	464.63	91.58	42.13
45.0	2266.31	2215.69	2036.25	1740.94	1372.50	867.38	369.56	72.96	38.31
90.0	2264.06	2184.19	1983.38	1653.75	1108.07	746.89	265.44	54.28	34.14
135.0	2266.88	2199.94	2036.25	1705.50	1313.44	793.69	315.00	59.23	34.76
180.0	2264.06	2162.25	1929.94	1599.19	1114.09	646.59	218.70	50.40	31.95
225.0	2266.31	2196.56	1991.81	1631.25	1099.13	740.42	242.83	56.93	33.64
270.0	2264.06	2223.56	2054.81	1779.75	1396.13	885.38	402.75	78.36	38.59
315.0	2266.88	2208.38	2034.56	1717.31	1260.00	840.15	337.84	67.61	36.51
360.0	2264.06	2243.25	2088.56	1820.25	1446.75	980.44	464.63	91.58	42.13
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	28.63	21.77	17.16	13.61	10.86	9.28	8.33	7.26	5.79
45.0	26.94	21.04	16.26	12.88	10.41	9.06	8.10	7.09	5.68
90.0	24.75	19.35	15.24	12.26	10.07	8.89	8.16	7.31	5.63
135.0	25.09	19.69	15.36	12.49	10.18	8.89	8.10	6.86	5.63
180.0	23.85	18.68	14.63	11.76	9.79	8.72	7.82	6.53	5.40
225.0	24.58	19.63	15.41	12.32	10.07	8.89	8.04	6.75	5.51
270.0	26.66	20.70	16.14	12.88	10.58	9.17	8.33	7.65	5.63
315.0	26.21	20.19	15.75	12.66	10.29	8.89	8.04	7.03	5.63
360.0	28.63	21.77	17.16	13.61	10.86	9.28	8.33	7.26	5.79
C/ $\gamma$ (°)	90.0								
0.0	5.01								
45.0	4.95								
90.0	4.95								
135.0	4.95								
180.0	4.95								
225.0	4.95								
270.0	4.95								
315.0	4.95								
360.0	5.01								