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Nata

LumCAT: 1-1062-N	
Luminaire: 92.70.246.00	
Report No: 210709-B002	Voltage(V): 36.0000
Test No: 210709-C002	Current(A): 0.5100
LampCAT: Fortimo LED SLM 1204 G7N	Power (W): 18.3600
Lamp flux(lm): 2429.4	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 1999.62
Efficiency(%): 82.31%
Lumens(lm)/Power(W): 108.91
Central intensity(cd): 5034.375
Maximum intensity(cd): 5034.375
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=35.7
[C90/270]Total=35.7
Field angle(10%Imax): [C0/180]Total=58.4
[C90/270]Total=58.4
Maximum s/h(1/2): C0_180=0.59 C90_270=0.59
Maximum s/h(1/4): C0_180=0.59 C90_270=0.59
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.081%

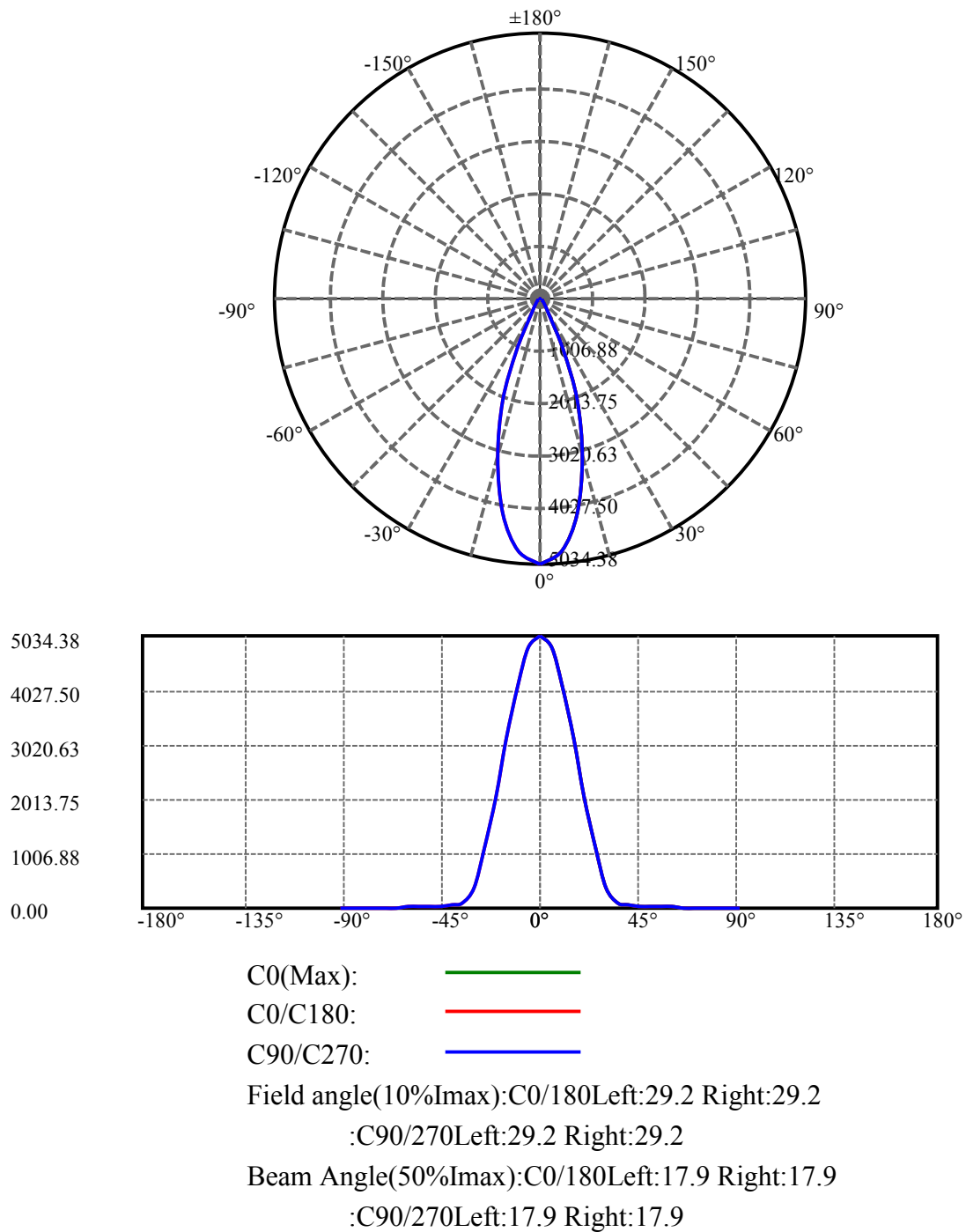
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5034.375	0.000	0	.000%	.000%
5.0	4800.516	117.573	117.573	4.840%	5.880%
10.0	4123.266	319.232	436.805	13.140%	21.844%
15.0	3135.023	430.557	867.362	17.723%	43.376%
20.0	2053.898	427.640	1295.002	17.603%	64.763%
25.0	1091.109	329.853	1624.855	13.577%	81.258%
30.0	390.832	187.541	1812.396	7.720%	90.637%
35.0	88.130	70.530	1882.927	2.903%	94.164%
40.0	56.130	24.069	1906.995	.991%	95.368%
45.0	39.804	17.763	1924.758	.731%	96.256%
50.0	31.092	14.326	1939.084	.590%	96.973%
55.0	24.349	12.055	1951.139	.496%	97.576%
60.0	19.343	10.099	1961.238	.416%	98.081%
65.0	15.511	8.473	1969.711	.349%	98.504%
70.0	13.092	7.242	1976.954	.298%	98.867%
75.0	11.398	6.401	1983.355	.263%	99.187%
80.0	10.477	5.853	1989.208	.241%	99.479%
85.0	9.527	5.436	1994.643	.224%	99.751%
90.0	8.634	4.973	1999.616	.205%	100.000%

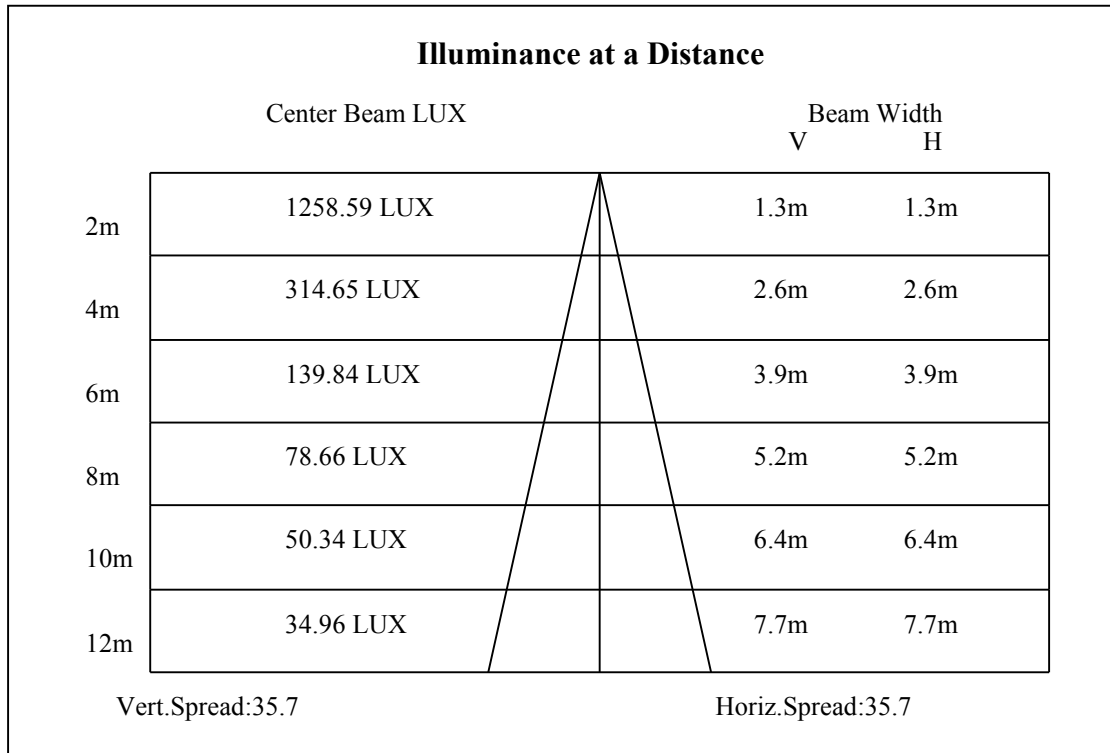
ZONAL LUMEN SUMMARY

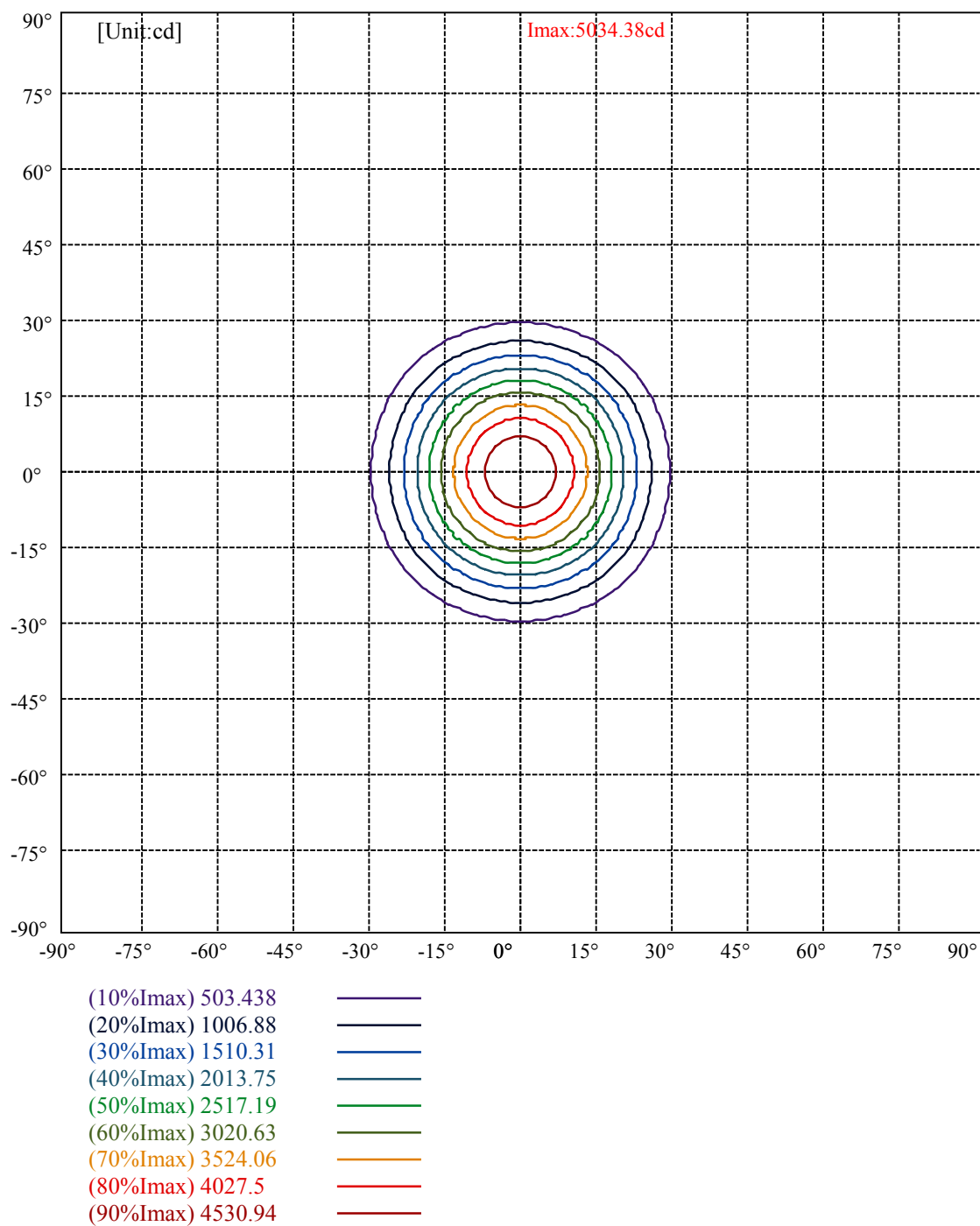
Zone	Lumens	%Lamp	%Fixt
0-30	1812.40	74.60%	90.64%
0-40	1907.00	78.50%	95.37%
0-60	1961.24	80.73%	98.08%
0-90	1994.64	82.10%	99.75%
0-120	1994.64	82.10%	99.75%
0-180	1999.62	82.31%	100.00%
60-90	43.50	1.79%	2.18%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.62	1599.69	65.85%	80.00%

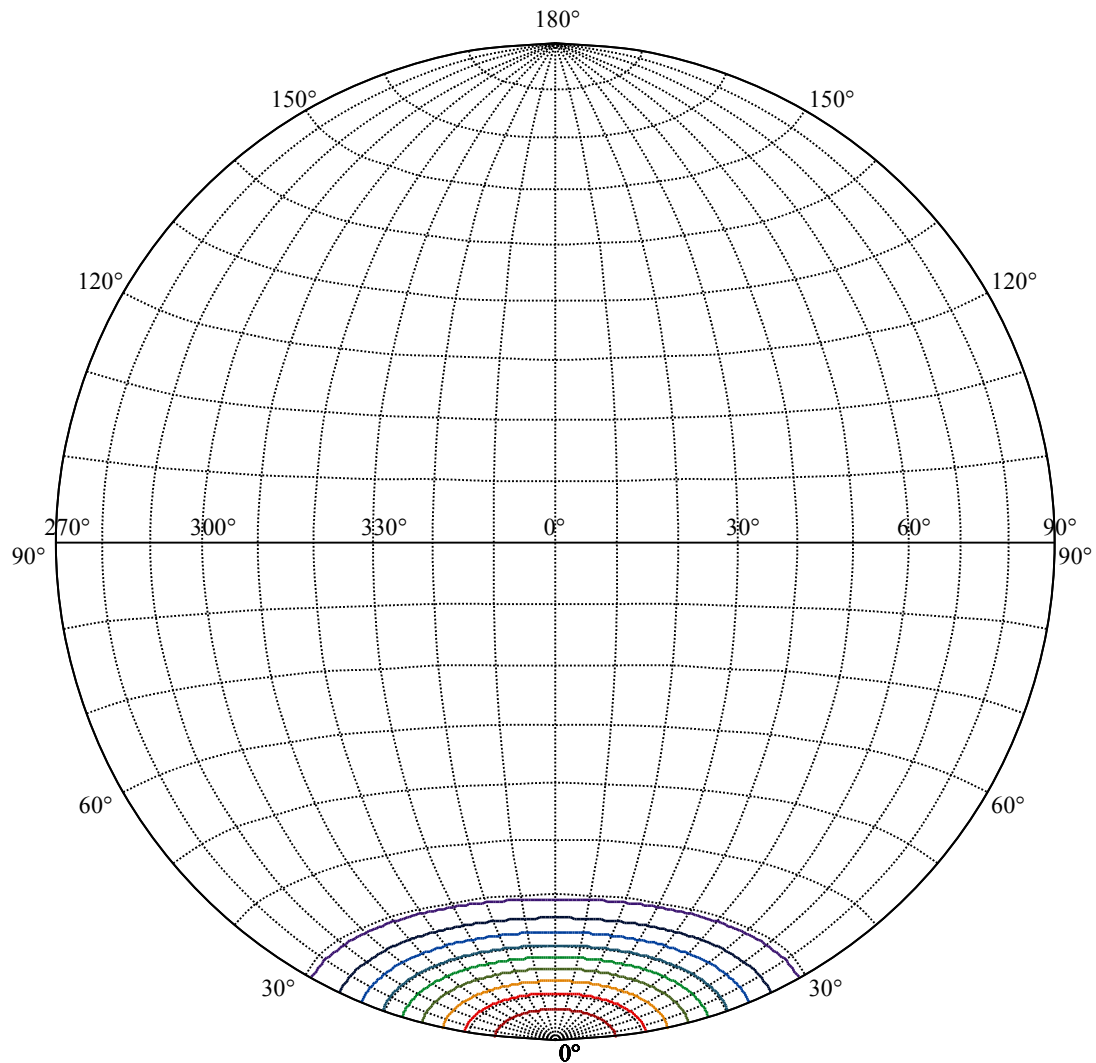
ZONAL LUMEN SUMMARY

0-10	436.81
10-20	858.20
20-30	517.39
30-40	94.60
40-50	32.09
50-60	22.15
60-70	15.72
70-80	12.25
80-90	5.44
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









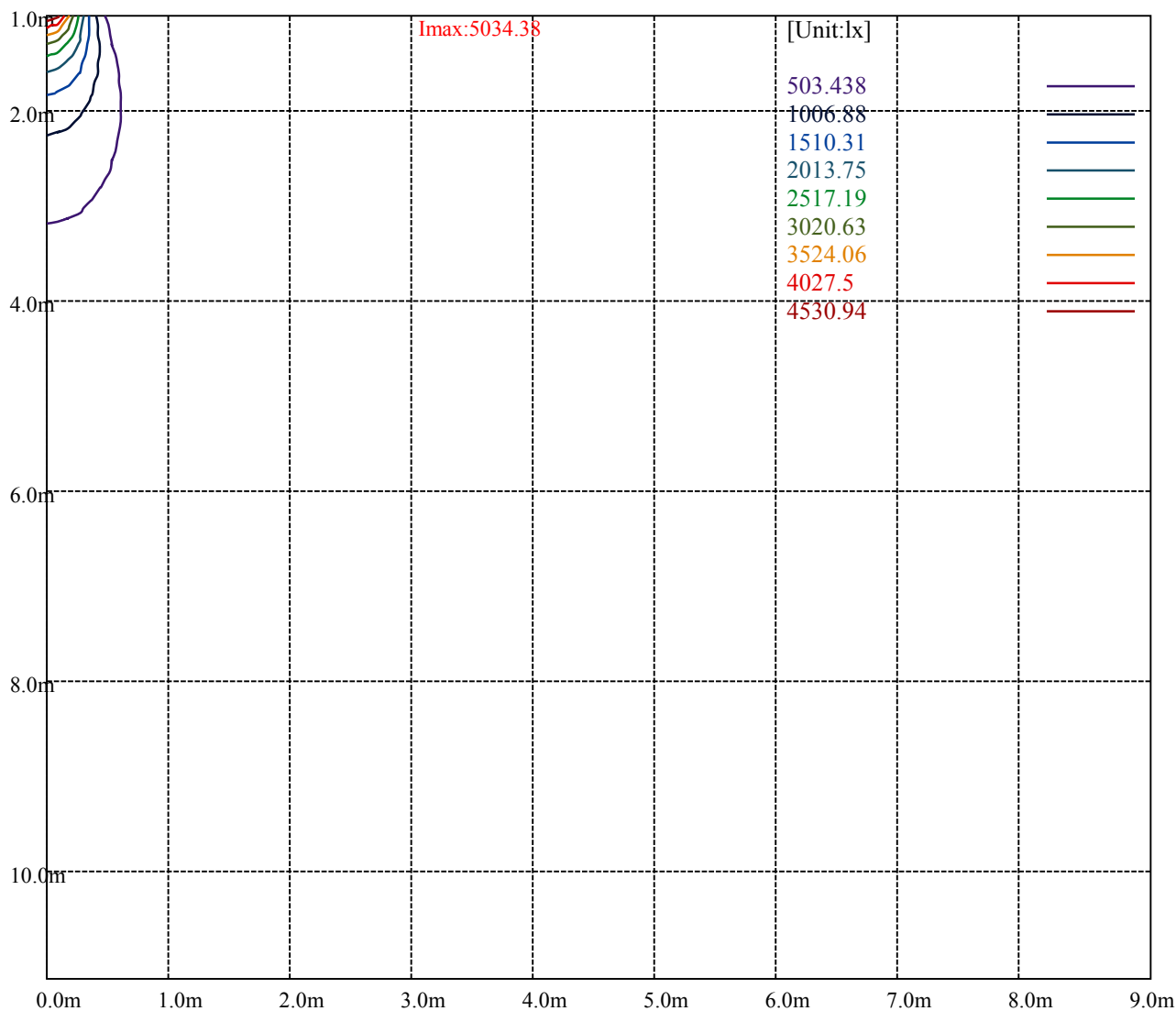
House

[Unit:cd]

Road

Imax:5034.38

(10%Imax)	503.438	—
(20%Imax)	1006.88	—
(30%Imax)	1510.31	—
(40%Imax)	2013.75	—
(50%Imax)	2517.19	—
(60%Imax)	3020.63	—
(70%Imax)	3524.06	—
(80%Imax)	4027.5	—
(90%Imax)	4530.94	—



Luminance Table

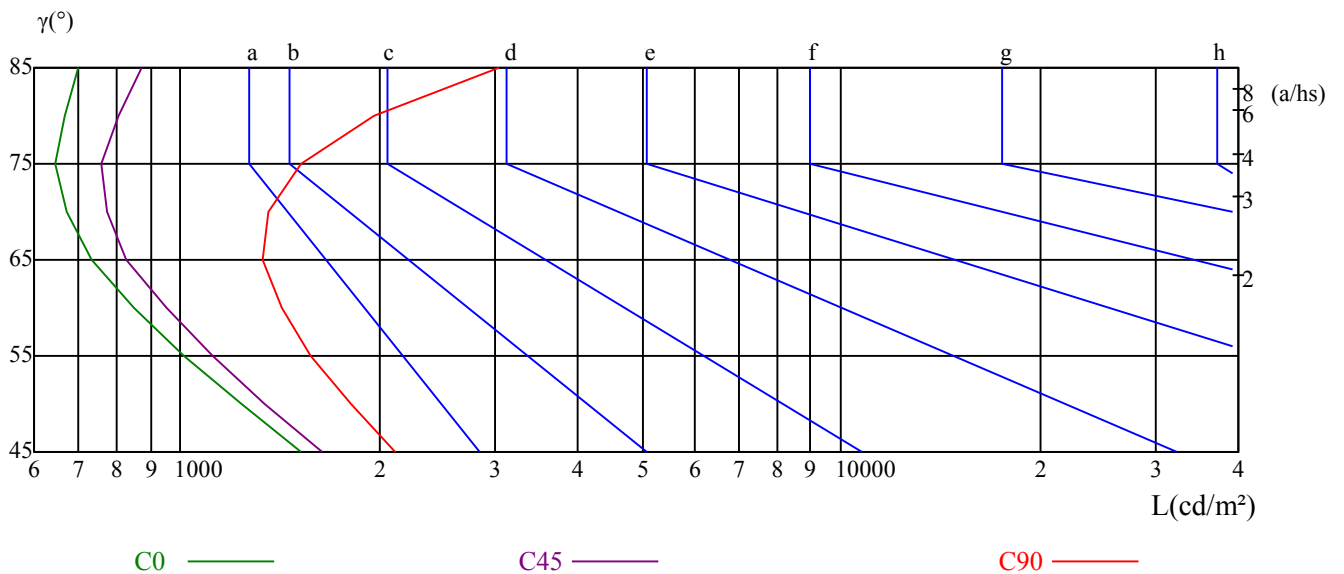
γ	45	50	55	60	65	70	75	80	85
C0	1519	1233	1012	852	733	672	646	668	701
C45	1639	1343	1115	950	828	773	758	805	874
C90	2120	1810	1576	1422	1331	1361	1518	1962	3042

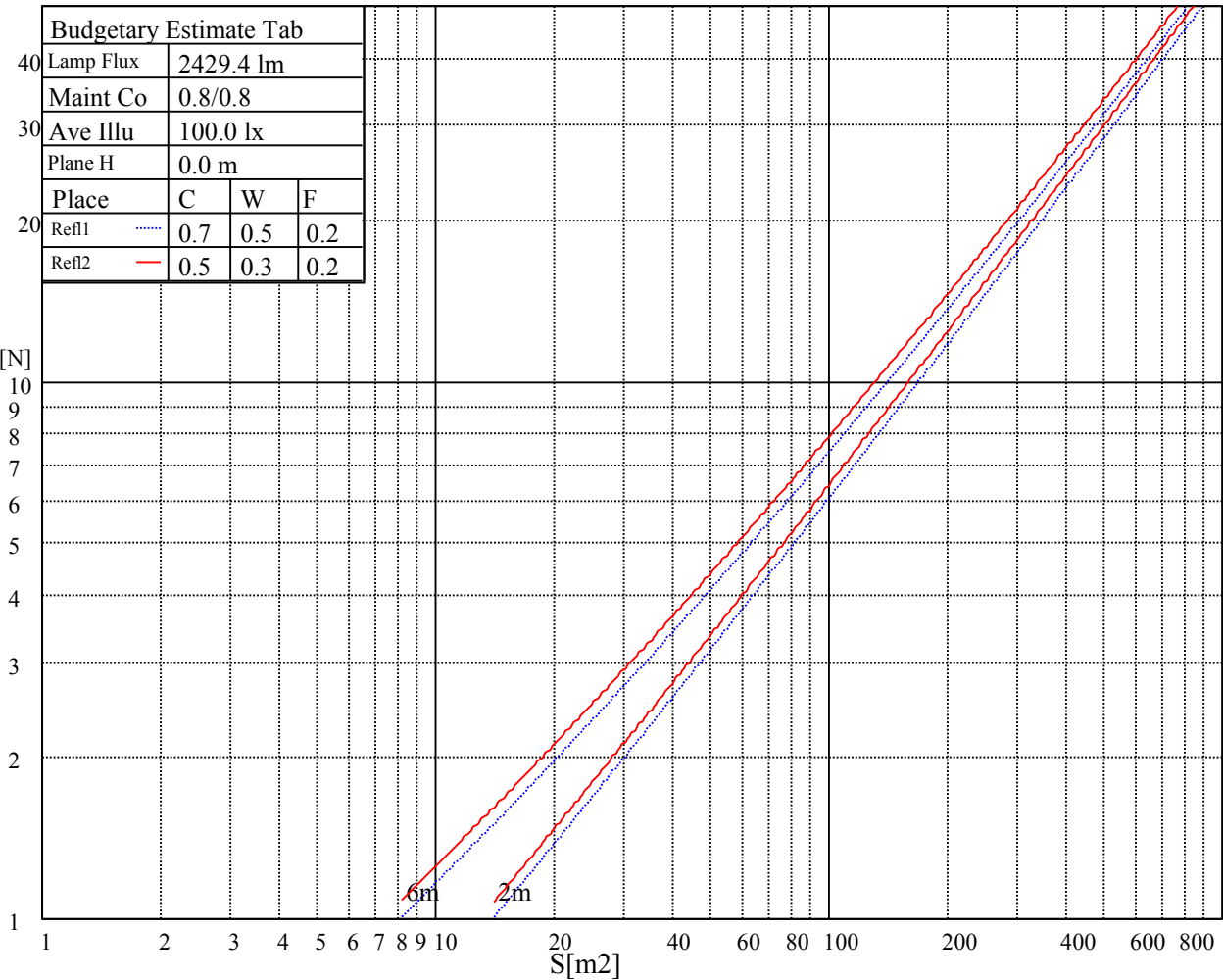
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1431	1431	1431	1717	1717	1717	4262	4262	4262

Glare Table

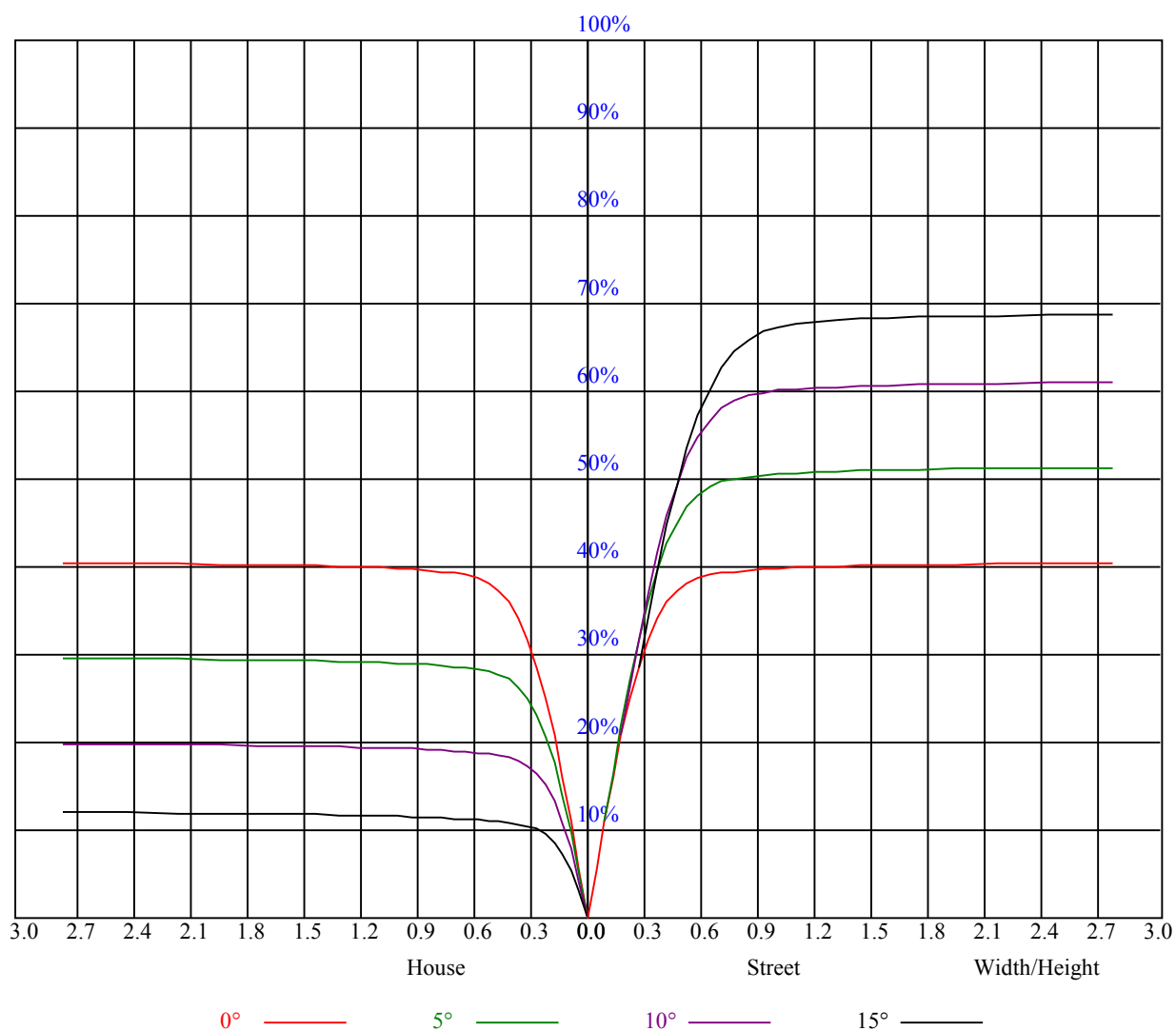
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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



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Intensity data(cd)										Appendix Page: 14 Total:14
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	
0.0	5031.00	4893.75	4241.25	3247.31	2235.94	1228.50	460.13	96.86	57.32	
45.0	5039.44	4787.44	4054.50	3162.38	2025.00	1057.50	392.06	84.99	53.55	
90.0	5029.31	4664.81	3962.81	2946.94	1859.06	975.54	309.66	76.89	51.92	
135.0	5037.75	4855.50	4164.19	3232.69	2067.19	1137.94	410.63	86.29	56.81	
180.0	5031.00	4712.06	3989.81	2944.13	1896.19	957.66	290.87	81.45	53.38	
225.0	5039.44	4817.25	4167.56	3144.38	2109.94	1118.48	394.37	89.44	58.95	
270.0	5029.31	4892.63	4338.00	3318.19	2230.88	1214.44	487.13	99.39	60.81	
315.0	5037.75	4780.69	4068.00	3084.19	2007.00	1038.83	381.83	89.72	56.31	
360.0	5031.00	4893.75	4241.25	3247.31	2235.94	1228.50	460.13	96.86	57.32	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	
0.0	40.84	32.57	25.14	20.03	15.86	13.39	11.48	10.35	9.39	
45.0	38.14	30.26	23.85	19.01	15.36	12.94	11.25	10.24	9.23	
90.0	37.52	29.48	22.84	18.68	15.02	12.66	11.14	10.07	9.34	
135.0	40.05	30.99	24.53	19.41	15.64	13.33	11.64	11.36	9.51	
180.0	38.19	30.09	23.40	18.51	14.91	12.71	11.08	10.13	9.28	
225.0	41.34	31.78	25.14	19.58	15.64	13.16	11.42	10.24	9.51	
270.0	42.98	32.74	25.65	20.42	16.09	13.44	11.64	10.41	9.45	
315.0	39.38	30.83	24.24	19.13	15.58	13.11	11.53	11.03	10.52	
360.0	40.84	32.57	25.14	20.03	15.86	13.39	11.48	10.35	9.39	
C/γ(°)	90.0									
0.0	8.61									
45.0	8.66									
90.0	8.66									
135.0	8.61									
180.0	8.61									
225.0	8.66									
270.0	8.66									
315.0	8.61									
360.0	8.61									