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Nata

LumCAT: 1-0928-M
Luminaire: 92.70.124.00
Report No: NATA0100
Test No: GC20190924010
LampCAT: TRIDONIC SLE G7 9MM
Lamp flux(lm): 1288.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 34.5200
Current(A): 0.2470
Power (W): 8.5300
PF: 0.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1024.10
Efficiency(%): 79.51%
Lumens(lm)/Power(W): 120.06
Central intensity(cd): 3315.797
Maximum intensity(cd): 3315.797
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=33.8
[C90/270]Total=33.8
Field angle(10%Imax): [C0/180]Total=48.8
[C90/270]Total=48.8
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.53 C90_270=0.53
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 79.51%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.563%

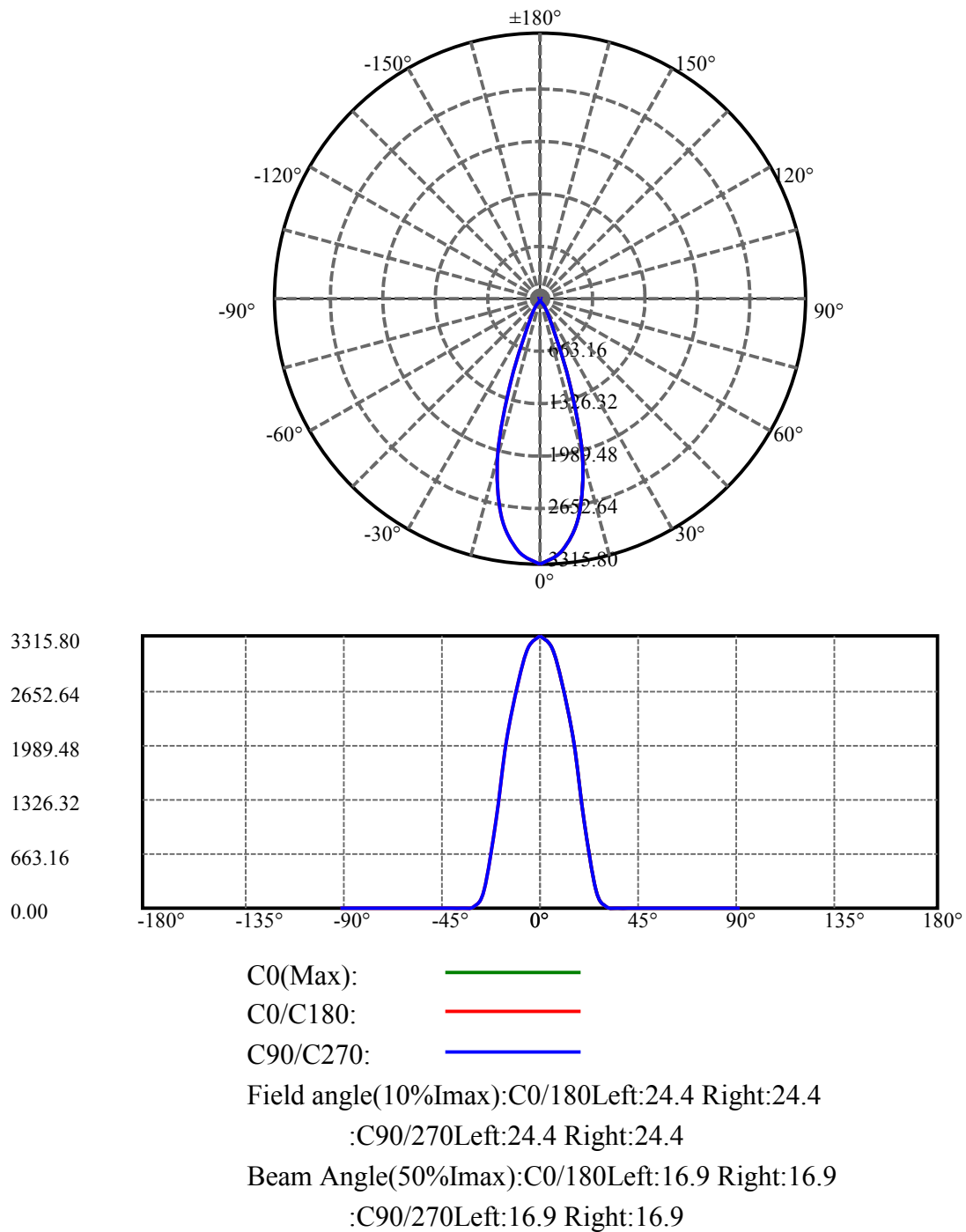
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3315.797	0.000	0	.000%	.000%
5.0	3163.641	77.460	77.46	6.014%	7.564%
10.0	2748.234	211.486	288.946	16.420%	28.215%
15.0	2009.039	282.198	571.144	21.910%	55.771%
20.0	1080.492	254.621	825.765	19.769%	80.634%
25.0	230.140	137.461	963.226	10.672%	94.056%
30.0	17.163	31.296	994.523	2.430%	97.112%
35.0	8.093	3.719	998.242	.289%	97.475%
40.0	6.286	2.399	1000.641	.186%	97.710%
45.0	5.484	2.179	1002.82	.169%	97.922%
50.0	5.119	2.143	1004.963	.166%	98.132%
55.0	4.894	2.177	1007.14	.169%	98.344%
60.0	4.788	2.238	1009.378	.174%	98.563%
65.0	4.732	2.314	1011.692	.180%	98.789%
70.0	4.704	2.389	1014.082	.186%	99.022%
75.0	4.676	2.452	1016.533	.190%	99.261%
80.0	4.648	2.495	1019.028	.194%	99.505%
85.0	4.662	2.530	1021.557	.196%	99.752%
90.0	4.613	2.539	1024.097	.197%	100.000%

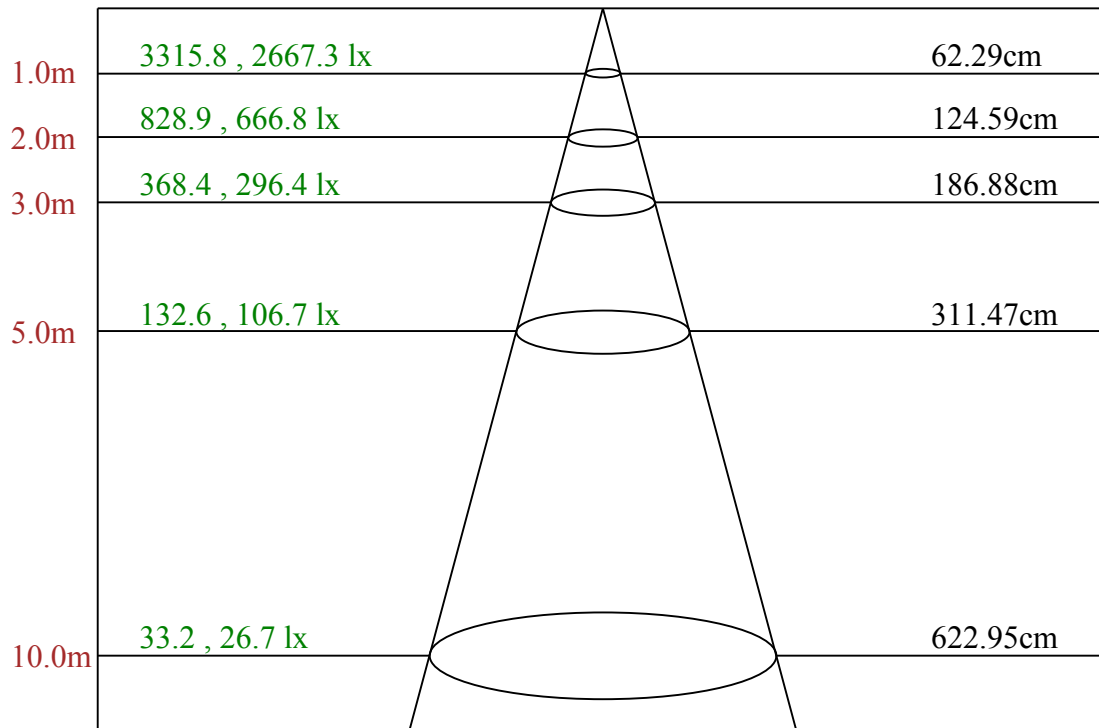
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	994.52	77.21%	97.11%
0-40	1000.64	77.69%	97.71%
0-60	1009.38	78.37%	98.56%
0-90	1021.56	79.31%	99.75%
0-120	1021.56	79.31%	99.75%
0-180	1024.10	79.51%	100.00%
60-90	14.42	1.12%	1.41%
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%
0-19.87	819.28	63.61%	80.00%

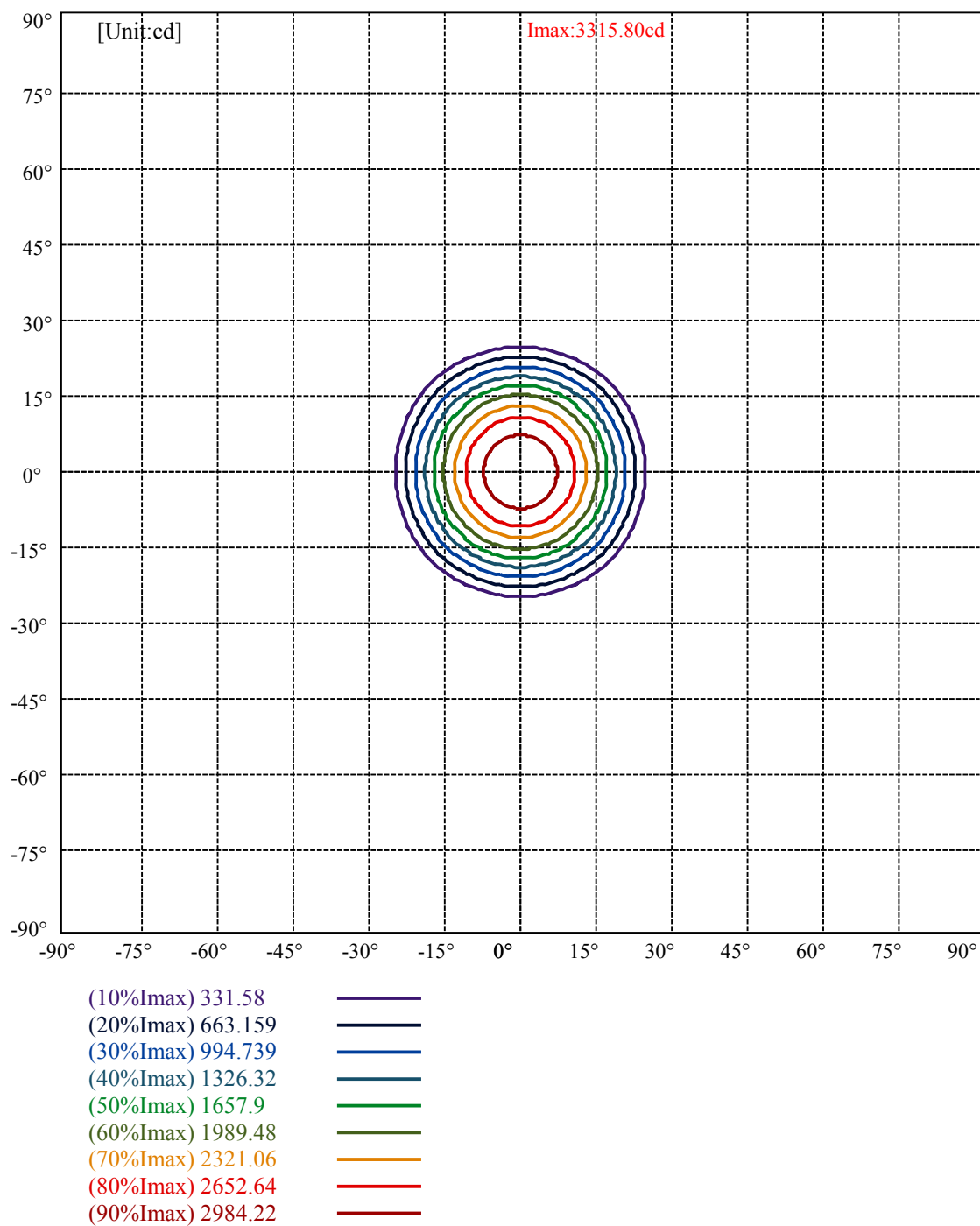
ZONAL LUMEN SUMMARY

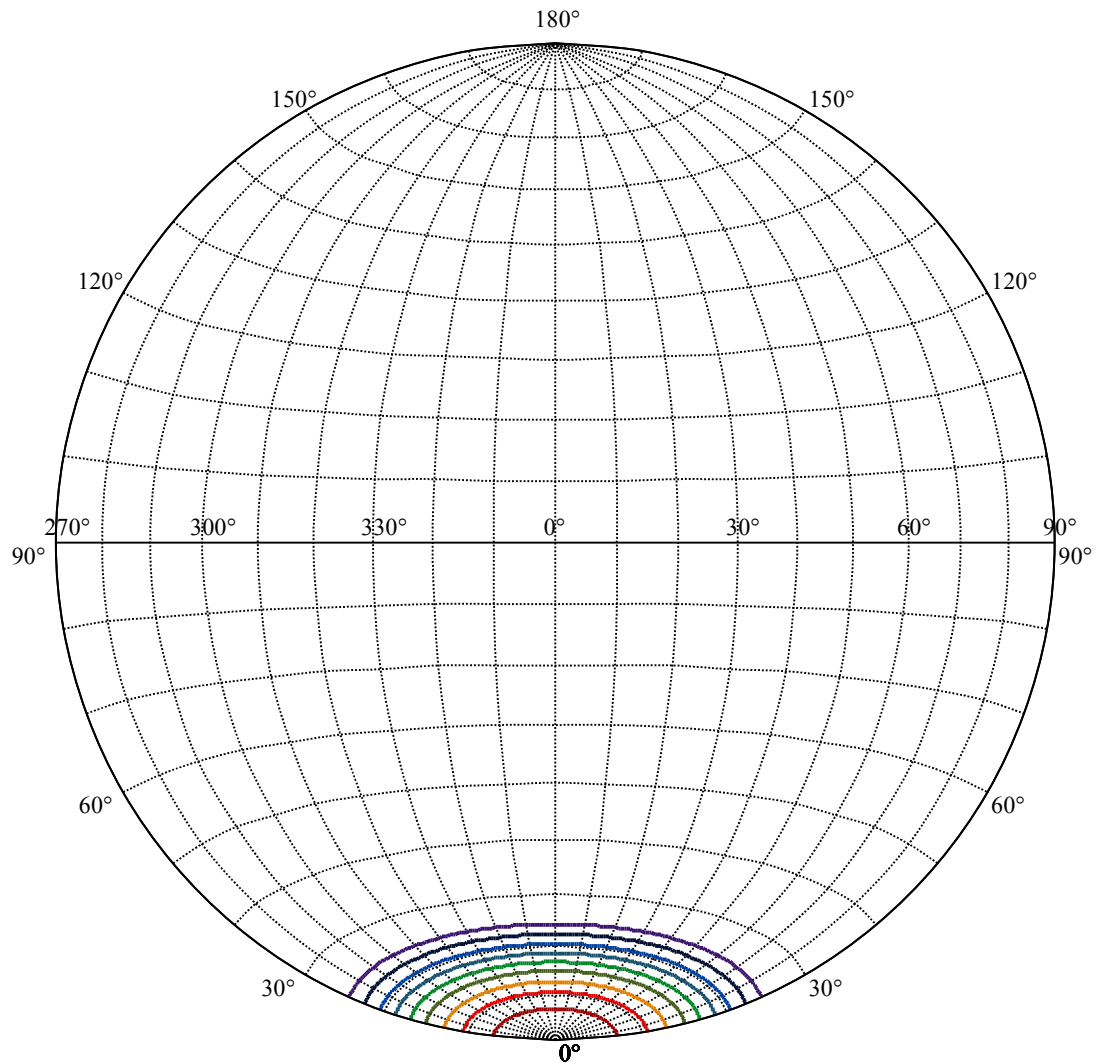
0-10	288.95
10-20	536.82
20-30	168.76
30-40	6.12
40-50	4.32
50-60	4.42
60-70	4.70
70-80	4.95
80-90	2.53
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0 plane 34.60





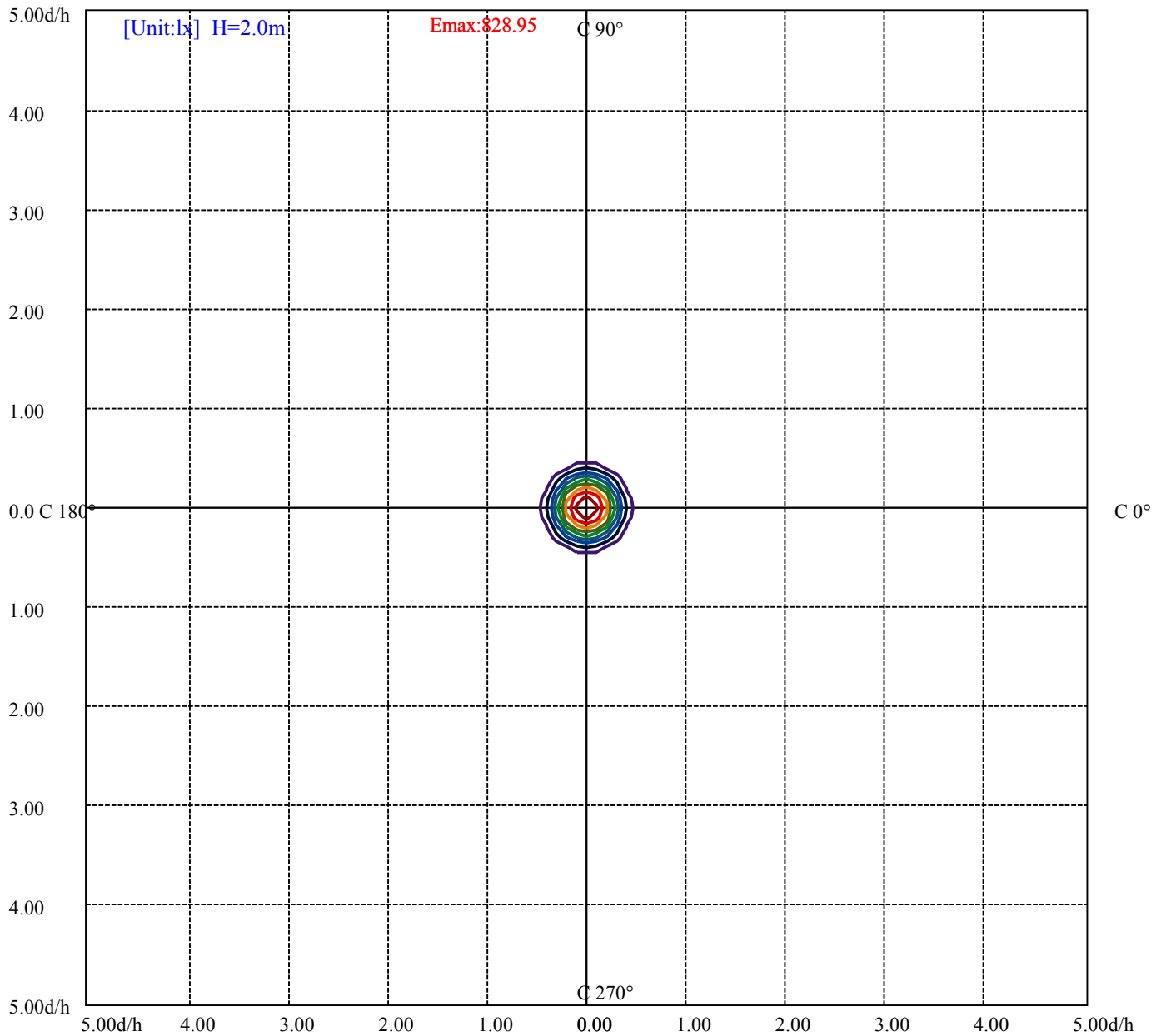
House

[Unit:cd]

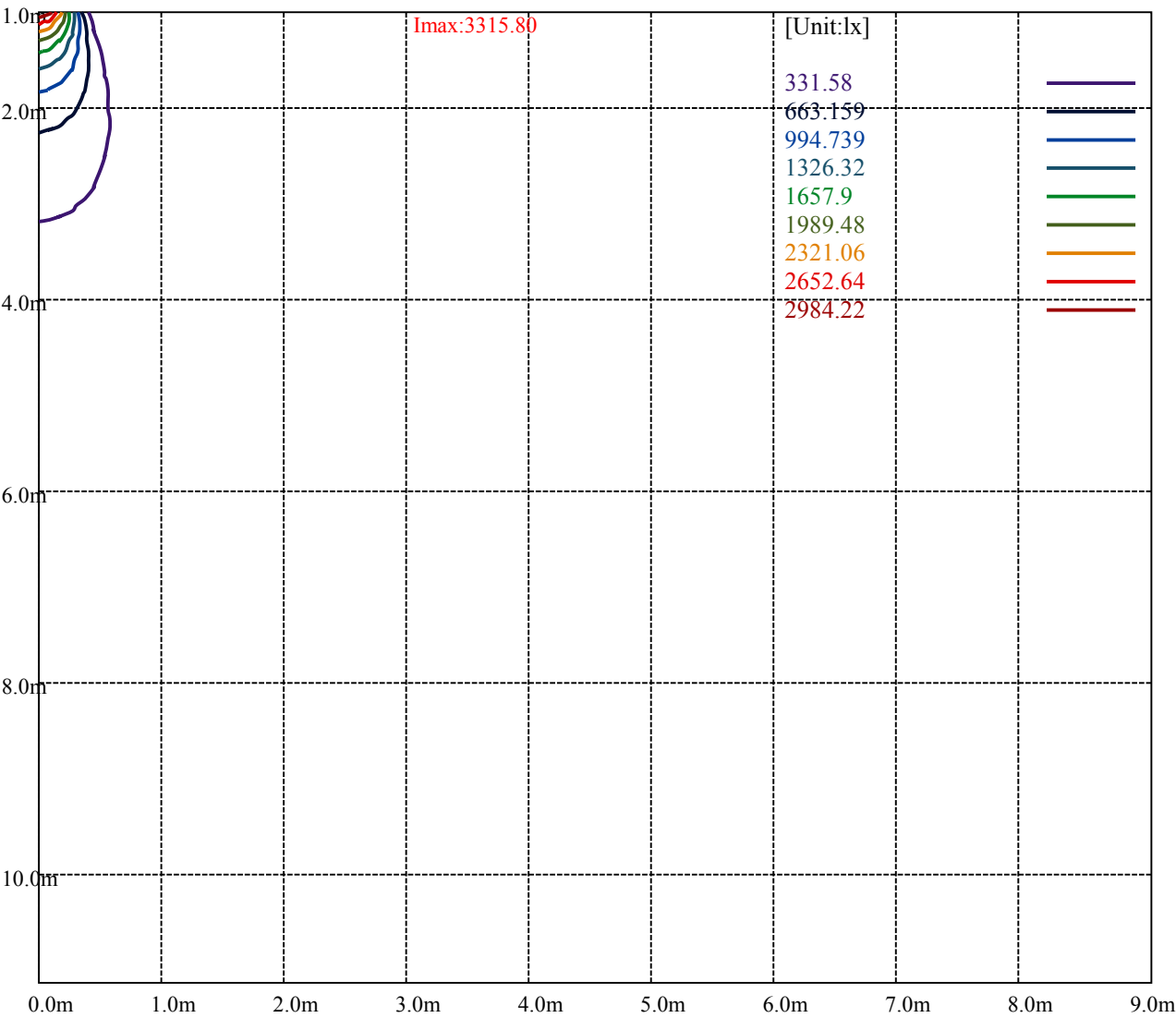
Road

Imax:3315.80

(10%Imax)	331.58	—
(20%Imax)	663.159	—
(30%Imax)	994.739	—
(40%Imax)	1326.32	—
(50%Imax)	1657.9	—
(60%Imax)	1989.48	—
(70%Imax)	2321.06	—
(80%Imax)	2652.64	—
(90%Imax)	2984.22	—



(10%Emax) 82.89475	—
(20%Emax) 165.7895	—
(30%Emax) 248.6845	—
(40%Emax) 331.58	—
(50%Emax) 414.475	—
(60%Emax) 497.37	—
(70%Emax) 580.2625	—
(80%Emax) 663.1575	—
(90%Emax) 746.0525	—



Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

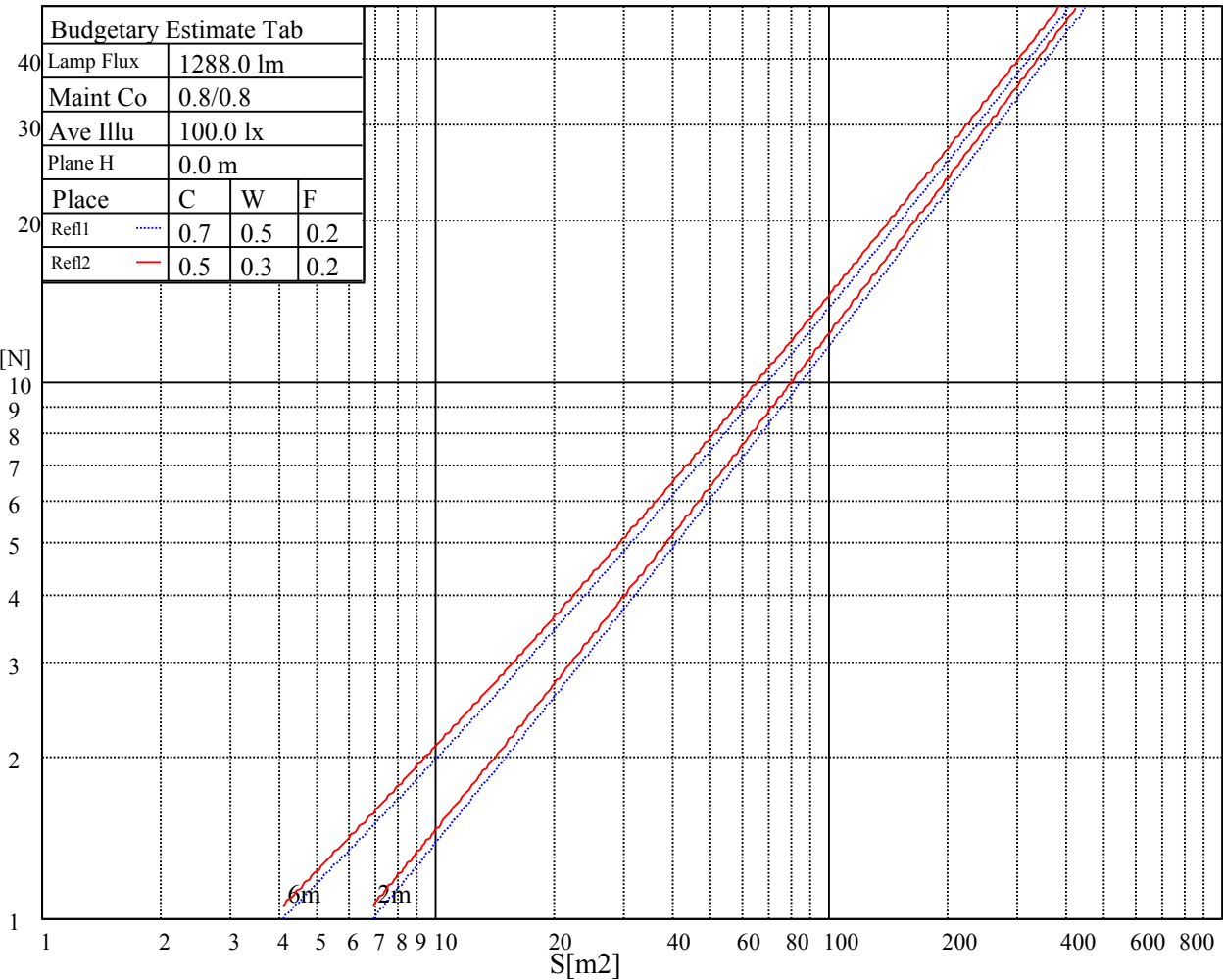
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

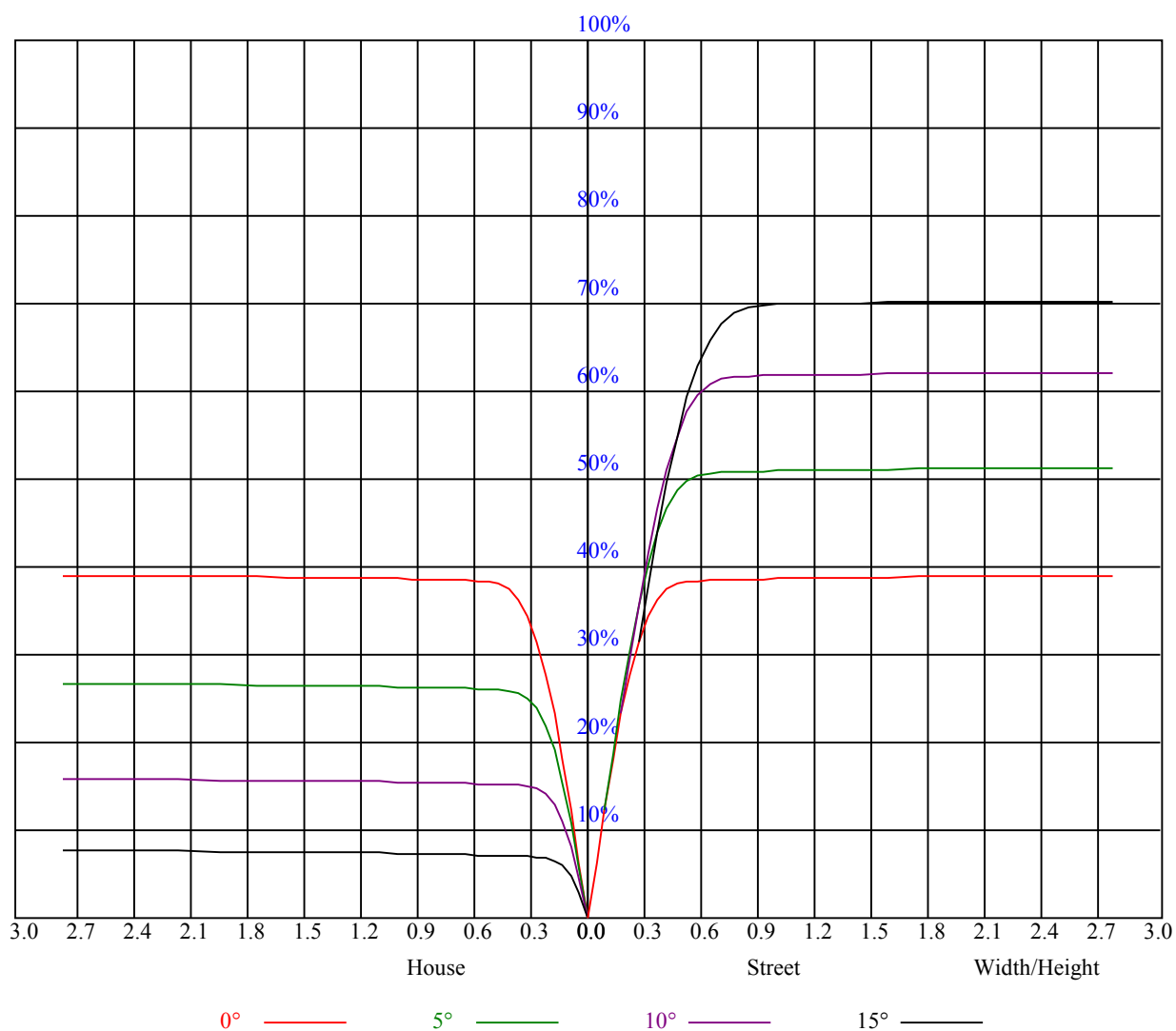
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOC	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 RHOF=20 CU															
0	0.95	0.95	0.95	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.81	0.81	0.81	0.80
1	0.89	0.88	0.86	0.88	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.76
2	0.85	0.82	0.80	0.84	0.81	0.79	0.81	0.79	0.78	0.79	0.77	0.76	0.77	0.76	0.75	0.73
3	0.81	0.78	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.75	0.73	0.72	0.71
4	0.78	0.75	0.72	0.77	0.74	0.72	0.75	0.73	0.71	0.74	0.72	0.70	0.73	0.71	0.69	0.68
5	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.72	0.69	0.68	0.71	0.69	0.67	0.66
6	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.69	0.67	0.65	0.64
7	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.66	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.62
8	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.63	0.61	0.60
9	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.58
10	0.63	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.62	0.59	0.58	0.57



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	3320.44	3179.81	2775.38	2096.44	1142.44	320.06	18.06	8.33	6.36		
45.0	3310.31	3203.44	2873.81	2166.19	1240.31	311.63	22.44	8.49	6.47		
90.0	3317.06	3166.88	2716.88	2022.19	1066.50	185.74	17.78	8.04	6.24		
135.0	3317.06	3219.19	2839.50	2146.50	1280.81	298.69	21.99	8.78	6.53		
180.0	3320.44	3172.50	2716.88	1970.44	1058.18	173.19	15.53	7.71	6.30		
225.0	3310.31	3103.88	2657.81	1864.13	887.63	126.73	13.61	7.71	6.13		
270.0	3317.06	3145.50	2762.44	2027.81	1065.94	307.69	15.69	8.04	6.24		
315.0	3313.69	3117.94	2643.19	1778.63	902.14	117.39	12.21	7.65	6.02		
360.0	3320.44	3179.81	2775.38	2096.44	1142.44	320.06	18.06	8.33	6.36		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	5.51	5.12	4.89	4.78	4.73	4.67	4.67	4.61	4.61		
45.0	5.57	5.23	4.95	4.84	4.78	4.73	4.67	4.67	4.67		
90.0	5.51	5.12	4.89	4.78	4.73	4.73	4.67	4.67	4.67		
135.0	5.57	5.23	4.95	4.84	4.73	4.73	4.67	4.67	4.61		
180.0	5.51	5.12	4.89	4.78	4.73	4.67	4.67	4.61	4.61		
225.0	5.40	5.06	4.84	4.78	4.73	4.73	4.67	4.61	4.61		
270.0	5.46	5.06	4.89	4.78	4.73	4.73	4.73	4.73	4.89		
315.0	5.34	5.01	4.84	4.73	4.73	4.67	4.67	4.61	4.61		
360.0	5.51	5.12	4.89	4.78	4.73	4.67	4.67	4.61	4.61		
C/γ(°)	90.0										
0.0	4.61										
45.0	4.61										
90.0	4.61										
135.0	4.61										
180.0	4.61										
225.0	4.61										
270.0	4.61										
315.0	4.61										
360.0	4.61										