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Nata

LumCAT: 2-1283-N
Luminaire: 92.70.064.00
Report No: NATA0100
Test No: GC2018072811
LampCAT: BRIDGELUX V6HD
Lamp flux(lm): 1137.0
Number of Lamps: 1
Length(mm): 57
Phm Type: C

Voltage(V): 36.0000
Current(A): 0.3000
Power (W): 10.8000
PF: 0.0000
Ballast type: DC
Width(mm): 57
Height(mm): 0

Photometric Results

Lumens(lm): 938.01
Efficiency(%): 82.50%
Lumens(lm)/Power(W): 87.52
Central intensity(cd): 7665.916
Maximum intensity(cd): 7665.916
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=11.4
[C90/270]Total=11.4
Field angle(10%Imax): [C0/180]Total=34.7
[C90/270]Total=34.7
Maximum s/h(1/2): C0_180=0.20 C90_270=0.20
Maximum s/h(1/4): C0_180=0.24 C90_270=0.24
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.13%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.891%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7665.915	7.336	7.336	.645%	.782%
2.0	6966.355	53.320	60.656	4.690%	6.466%
4.0	5315.695	81.322	141.978	7.152%	15.136%
6.0	3582.176	82.120	224.098	7.222%	23.891%
8.0	2494.674	76.144	300.242	6.697%	32.008%
10.0	1923.120	73.239	373.481	6.441%	39.816%
12.0	1492.992	68.077	441.558	5.987%	47.074%
14.0	1154.326	61.245	502.802	5.387%	53.603%
16.0	898.032	54.287	557.089	4.775%	59.390%
18.0	705.713	47.827	604.917	4.206%	64.489%
20.0	570.997	42.830	647.747	3.767%	69.055%
22.0	480.512	39.477	687.224	3.472%	73.264%
24.0	419.564	37.426	724.65	3.292%	77.254%
26.0	382.236	36.748	761.399	3.232%	81.171%
28.0	355.506	36.603	798.002	3.219%	85.074%
30.0	317.861	34.856	832.858	3.066%	88.789%
32.0	243.735	28.326	861.184	2.491%	91.809%
34.0	128.770	15.792	876.976	1.389%	93.493%
36.0	53.577	6.907	883.883	.607%	94.229%
38.0	28.416	3.837	887.72	.337%	94.638%
40.0	21.899	3.087	890.807	.272%	94.967%
42.0	18.960	2.782	893.589	.245%	95.264%
44.0	17.219	2.623	896.212	.231%	95.544%
46.0	15.898	2.508	898.72	.221%	95.811%
48.0	14.893	2.427	901.148	.213%	96.070%
50.0	14.156	2.378	903.526	.209%	96.323%
52.0	13.716	2.370	905.896	.208%	96.576%
54.0	13.475	2.391	908.287	.210%	96.831%
56.0	13.454	2.446	910.733	.215%	97.092%
58.0	13.558	2.522	913.255	.222%	97.360%
60.0	13.503	2.565	915.82	.226%	97.634%
62.0	12.518	2.424	918.244	.213%	97.892%
64.0	10.977	2.164	920.407	.190%	98.123%
66.0	9.869	1.977	922.385	.174%	98.334%
68.0	9.098	1.850	924.235	.163%	98.531%
70.0	8.114	1.672	925.907	.147%	98.709%
72.0	7.295	1.522	927.428	.134%	98.872%
74.0	6.978	1.471	928.9	.129%	99.028%

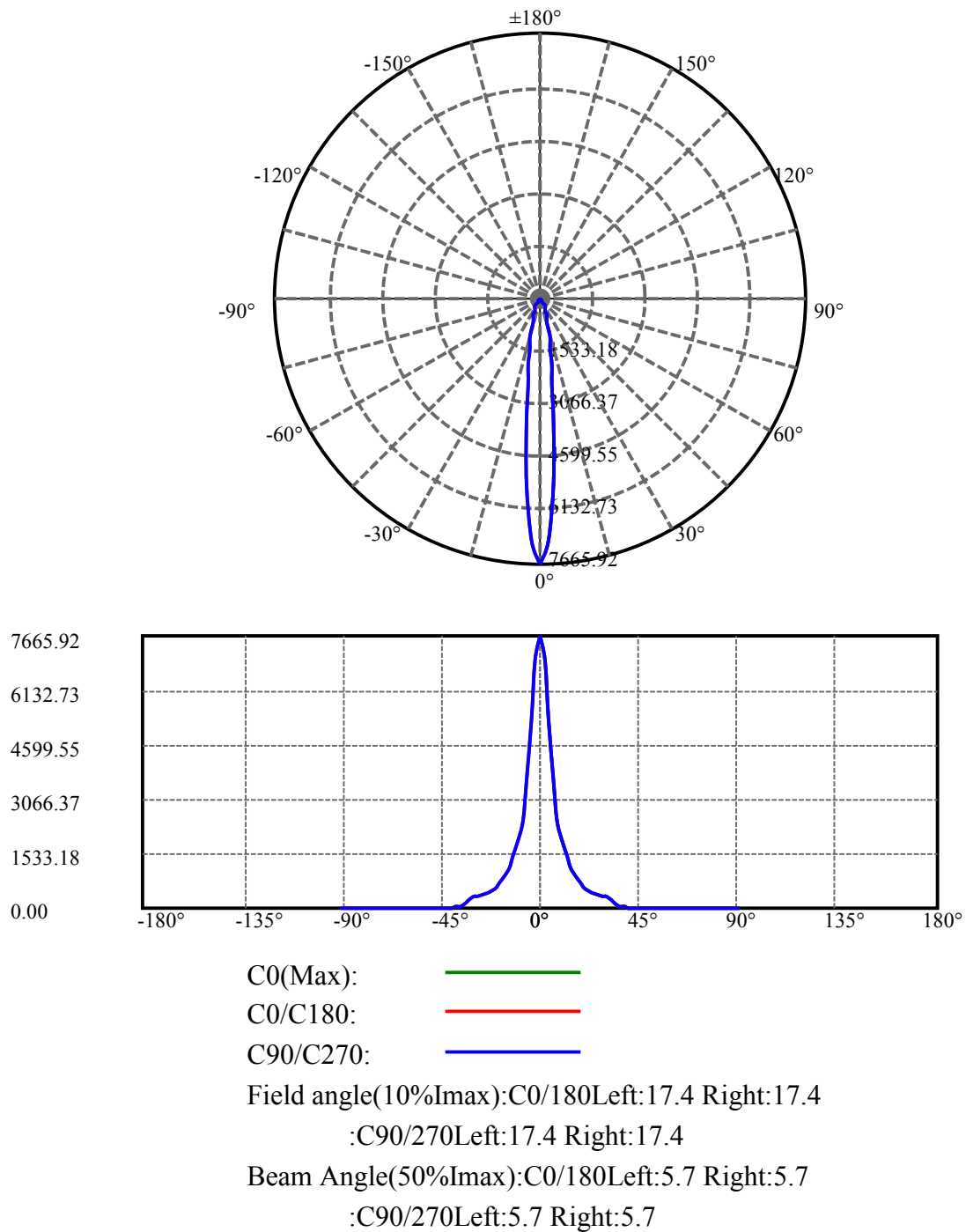
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.648	1.415	930.314	.124%	99.179%
78.0	6.352	1.363	931.677	.120%	99.324%
80.0	6.042	1.305	932.982	.115%	99.464%
82.0	5.740	1.247	934.229	.110%	99.596%
84.0	5.430	1.184	935.413	.104%	99.723%
86.0	5.100	1.116	936.529	.098%	99.842%
88.0	4.590	1.006	937.535	.088%	99.949%
90.0	4.370	0.479	938.014	.042%	100.000%

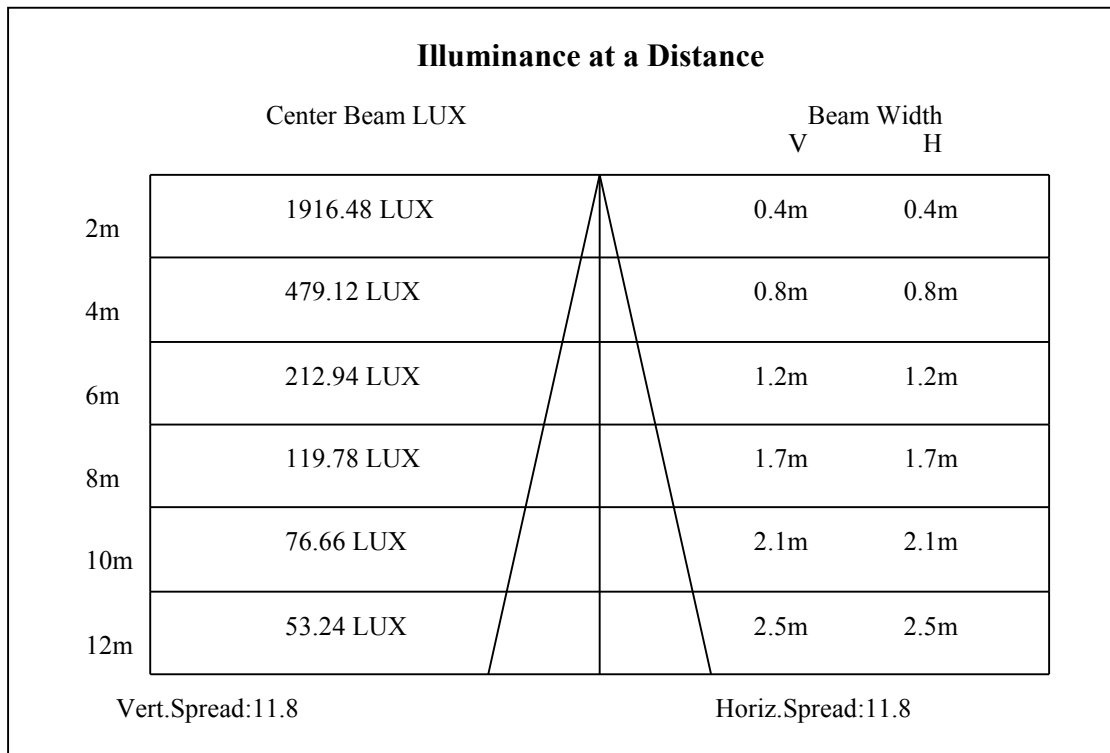
ZONAL LUMEN SUMMARY

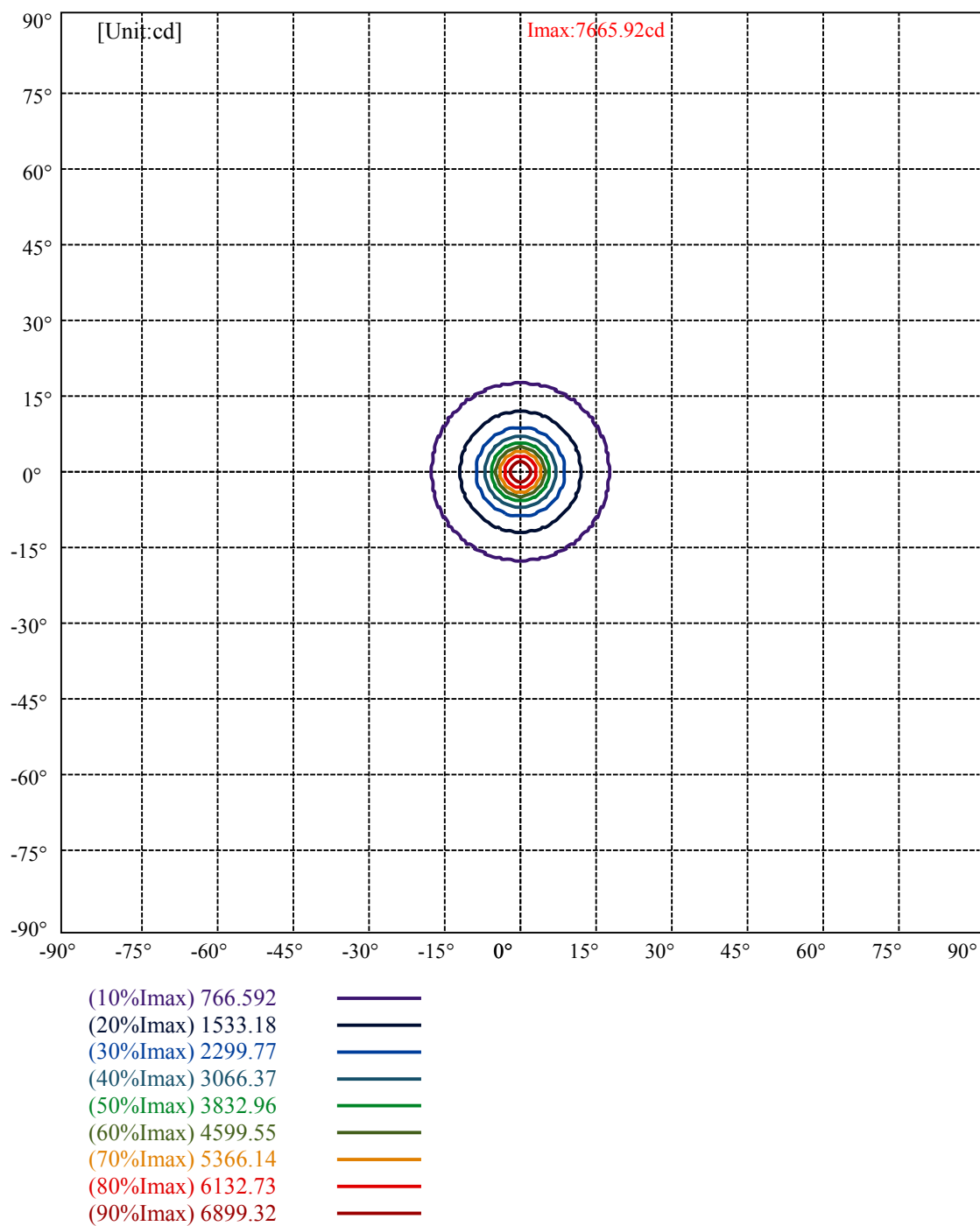
Zone	Lumens	%Lamp	%Fixt
0-30	832.86	73.25%	88.79%
0-40	890.81	78.35%	94.97%
0-60	915.82	80.55%	97.63%
0-90	937.53	82.46%	99.95%
0-120	937.53	82.46%	99.95%
0-180	938.01	82.50%	100.00%
60-90	24.28	2.14%	2.59%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.40	750.41	66.00%	80.00%

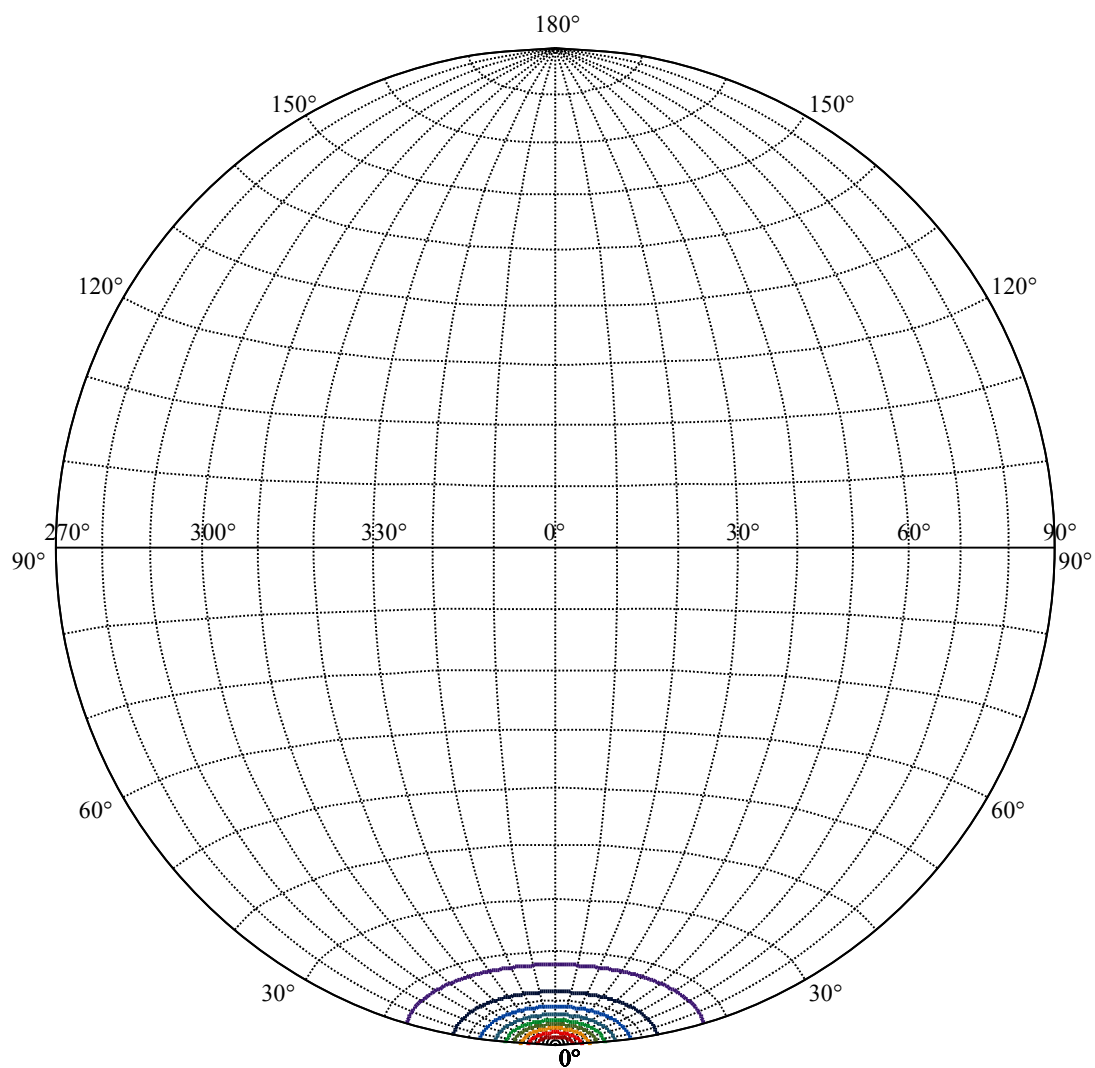
ZONAL LUMEN SUMMARY

0-10	373.48
10-20	274.27
20-30	185.11
30-40	57.95
40-50	12.72
50-60	12.29
60-70	10.09
70-80	7.08
80-90	4.55
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









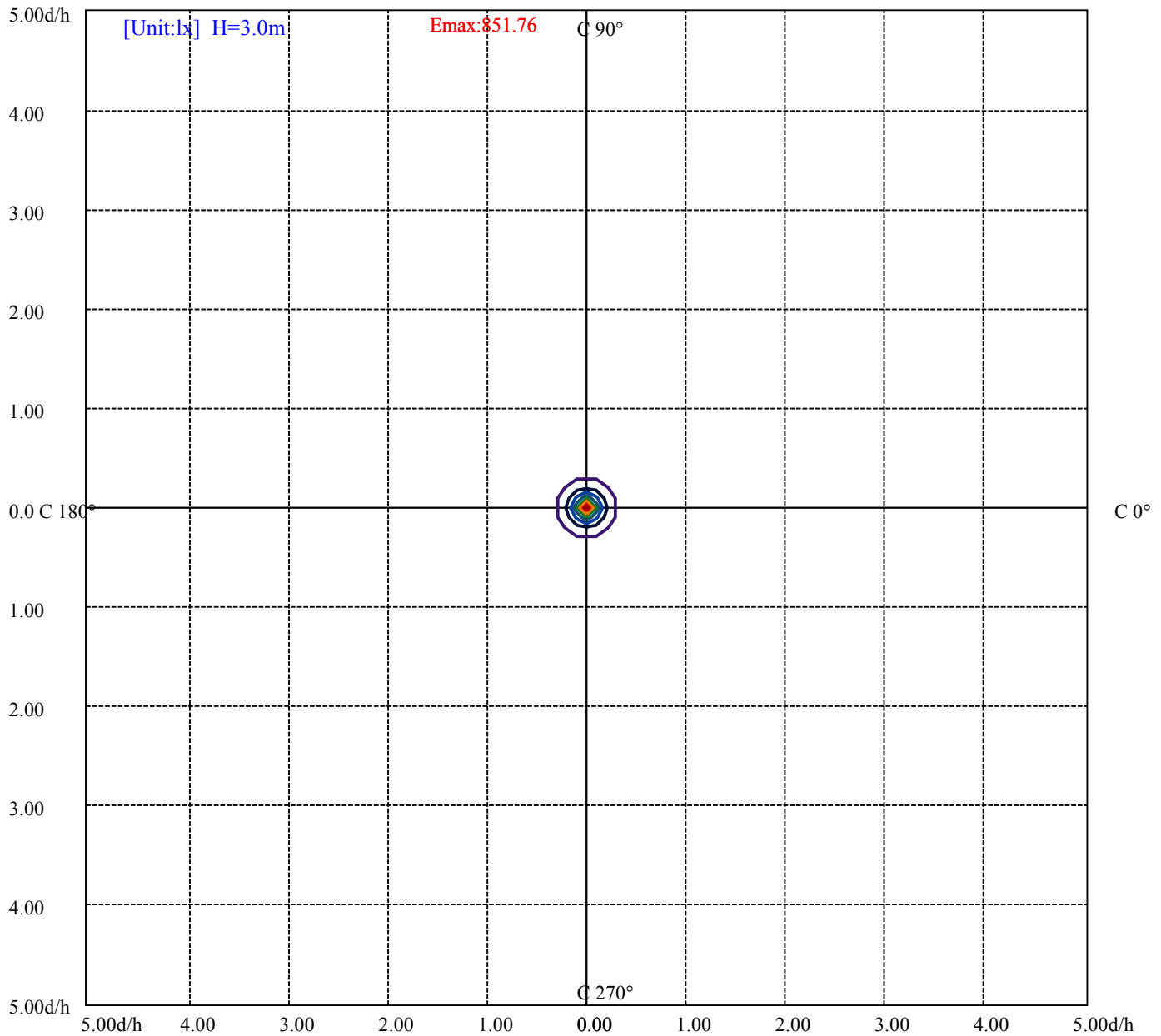
House

[Unit:cd]

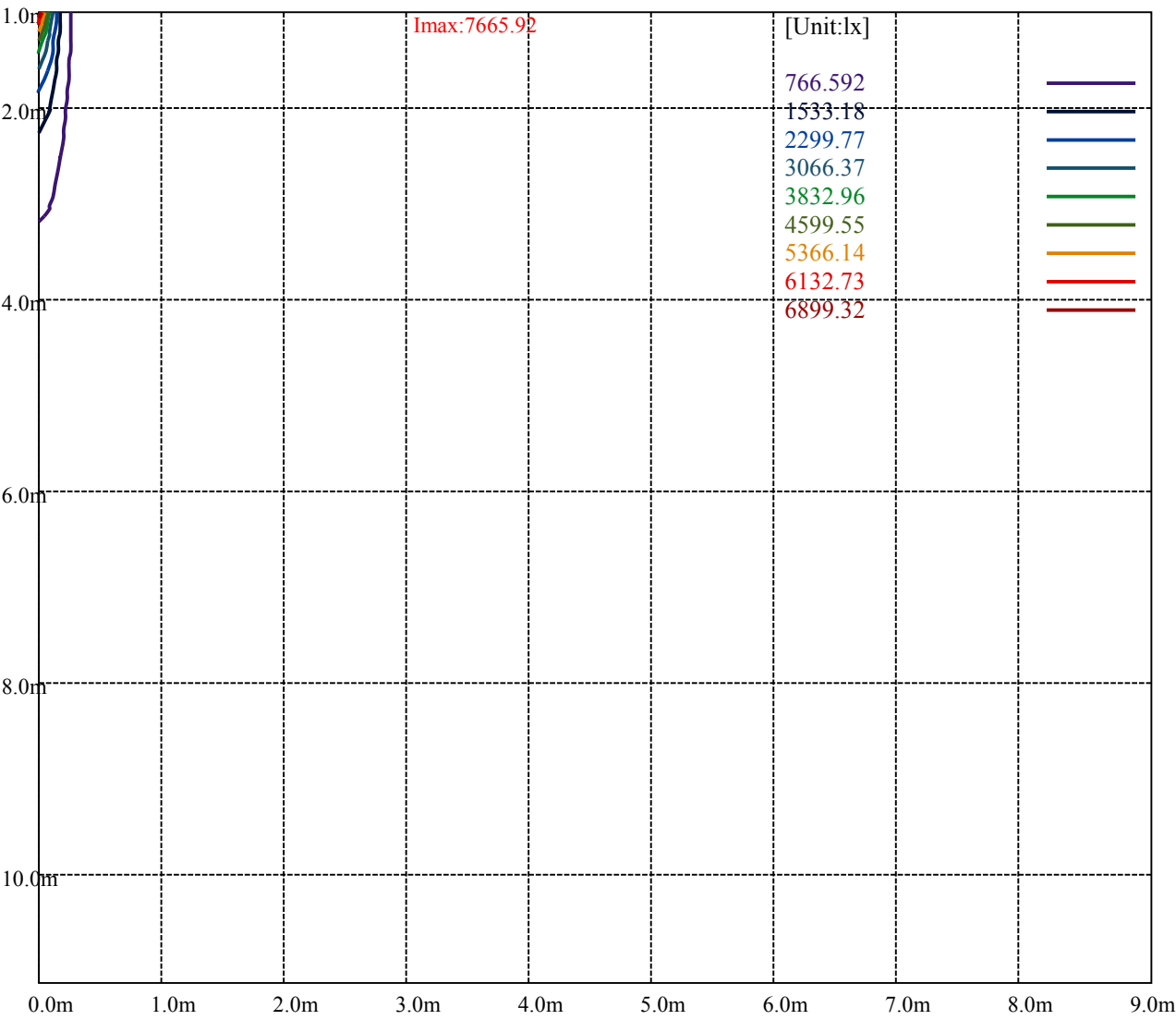
Road

Imax:7665.92

(10%Imax)	766.592	—
(20%Imax)	1533.18	—
(30%Imax)	2299.77	—
(40%Imax)	3066.37	—
(50%Imax)	3832.96	—
(60%Imax)	4599.55	—
(70%Imax)	5366.14	—
(80%Imax)	6132.73	—
(90%Imax)	6899.32	—



(10%Emax) 85.17622	—
(20%Emax) 170.3522	—
(30%Emax) 255.5289	—
(40%Emax) 340.7056	—
(50%Emax) 425.8811	—
(60%Emax) 511.0578	—
(70%Emax) 596.2333	—
(80%Emax) 681.41	—
(90%Emax) 766.5867	—



Luminance Table

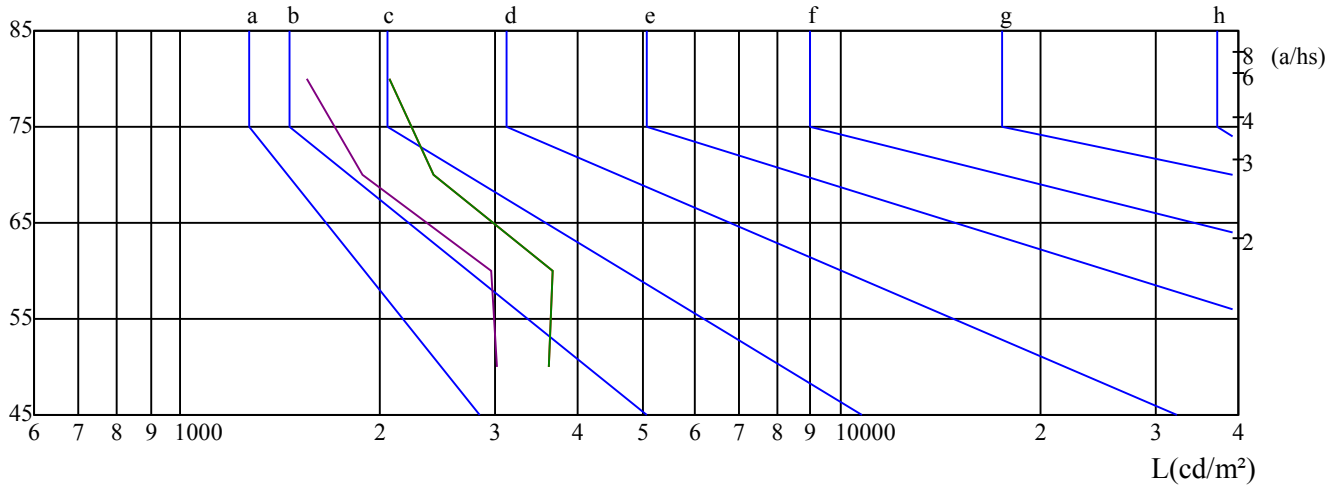
γ	45	50	55	60	65	70	75	80	85
C0	0	3609	0	3652	0	2414	0	2068	0
C45	0	3024	0	2963	0	1890	0	1550	0
C90	0	3609	0	3652	0	2414	0	2068	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5974	5974	5974	7660	7660	7660	21096	21096	21096

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

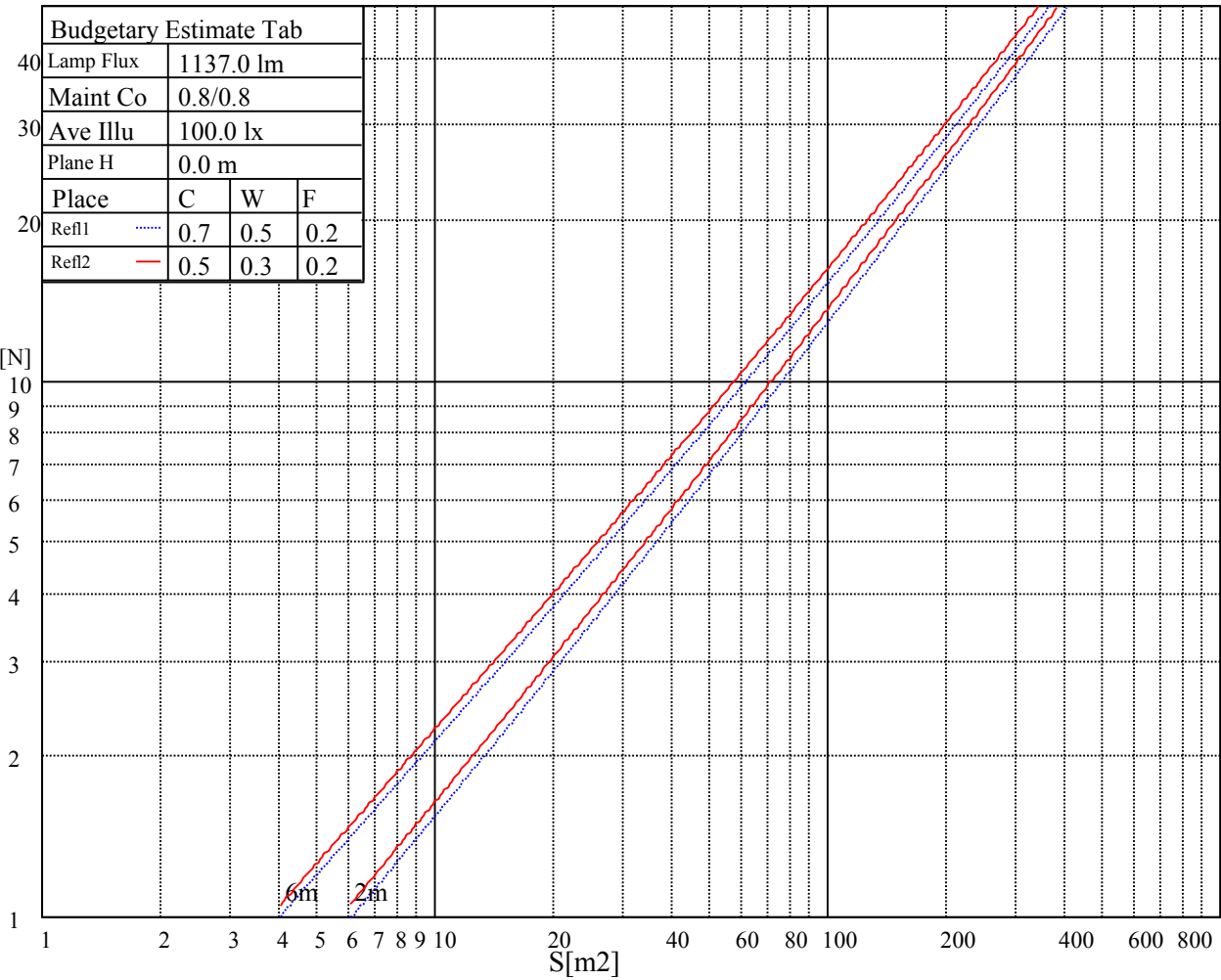
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

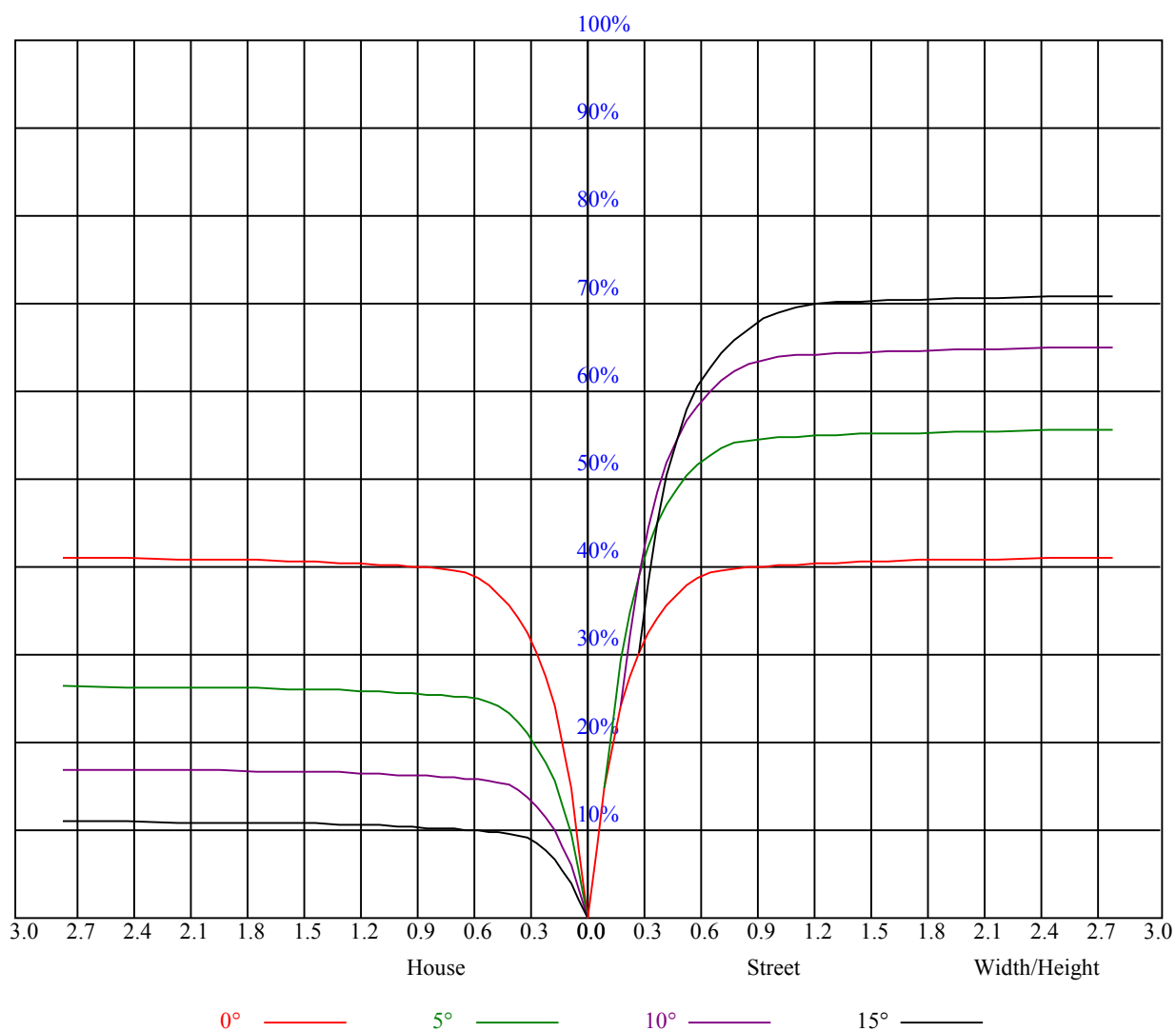
C0 ———

C45 ———

C90 ———



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 RHOFC=20 CU															
0	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.92	0.90	0.88	0.90	0.89	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.80	0.78
2	0.87	0.84	0.82	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.78	0.79	0.77	0.76	0.75
3	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.72
4	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.72	0.70	0.68	0.67
6	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.66	0.65
7	0.71	0.67	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.63
8	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61
9	0.67	0.63	0.61	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
10	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.63	0.60	0.58	0.57



Intensity data(cd)

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	7601.64	7580.72	6206.51	4358.26	2932.30	2217.67	1790.43	1365.95	1029.00
45.0	7740.38	6780.75	5087.21	3282.46	2331.09	1827.32	1433.12	1094.52	864.39
90.0	7583.47	6176.78	4334.59	2840.91	2065.72	1591.13	1086.81	925.17	721.46
135.0	7738.18	6506.01	4659.97	3060.03	2258.41	1757.95	1389.07	1059.29	825.85
180.0	7601.64	6338.09	4409.47	2947.17	2233.09	1757.95	1364.30	1039.80	810.87
225.0	7740.38	7228.35	5545.83	3744.94	2537.55	1997.45	1574.61	1176.00	962.44
270.0	7583.47	7587.87	6311.67	4310.92	2835.40	2152.71	1669.86	1289.42	978.35
315.0	7738.18	7532.27	5970.32	4112.71	2763.83	2082.78	1635.73	1284.47	991.90
360.0	7601.64	7580.72	6206.51	4358.26	2932.30	2217.67	1790.43	1365.95	1029.00
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	817.04	640.31	530.19	458.62	417.33	384.29	359.52	296.20	186.31
45.0	687.65	554.42	474.04	415.68	386.50	368.33	333.09	280.79	107.30
90.0	564.60	475.14	412.37	370.86	341.02	312.89	259.70	161.76	74.05
135.0	667.83	546.71	469.63	416.23	383.74	357.32	311.62	206.08	98.50
180.0	629.74	534.54	459.23	412.21	379.83	352.25	297.86	189.89	83.14
225.0	751.19	600.17	495.62	425.53	379.61	355.72	328.25	255.13	147.22
270.0	752.07	586.35	487.25	409.07	363.92	337.50	311.62	280.24	162.58
315.0	775.58	630.34	515.77	448.32	405.93	375.76	341.24	279.80	171.06
360.0	817.04	640.31	530.19	458.62	417.33	384.29	359.52	296.20	186.31
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	83.63	38.54	26.26	20.92	18.72	17.29	15.80	14.65	13.65
45.0	38.92	25.93	20.48	18.17	16.63	15.47	14.48	13.54	12.94
90.0	34.58	25.99	22.19	19.32	17.34	16.57	16.74	16.68	16.24
135.0	38.48	23.34	19.27	17.56	16.19	15.25	14.53	13.82	13.60
180.0	32.21	23.18	19.27	17.78	16.52	15.14	13.98	12.72	12.28
225.0	55.06	27.42	20.48	18.17	16.63	14.98	13.76	13.16	12.72
270.0	74.11	31.82	24.33	20.92	18.77	16.85	15.31	15.03	15.36
315.0	71.63	31.11	22.90	18.83	16.96	15.64	14.53	13.65	12.94
360.0	83.63	38.54	26.26	20.92	18.72	17.29	15.80	14.65	13.65
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	12.88	12.55	12.83	12.88	12.55	11.12	10.13	9.36	8.75
45.0	12.61	12.61	13.10	13.27	12.06	10.41	9.36	9.03	7.49
90.0	15.47	14.65	13.98	12.99	11.40	10.24	9.47	9.03	7.60
135.0	13.87	14.59	15.09	14.98	13.05	11.29	9.91	8.97	7.60
180.0	12.33	12.83	13.10	12.94	11.45	10.41	9.58	8.97	7.76
225.0	12.66	12.77	13.27	13.98	13.54	11.78	10.24	9.03	8.37
270.0	15.42	15.03	14.59	14.09	13.60	11.67	10.41	9.47	8.92
315.0	12.55	12.61	12.50	12.88	12.50	10.90	9.86	8.92	8.42
360.0	12.88	12.55	12.83	12.88	12.55	11.12	10.13	9.36	8.75
C/γ(°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	7.49	7.10	6.83	6.50	6.22	6.00	5.78	5.45	5.01
45.0	7.05	6.83	6.50	6.17	5.95	5.62	5.34	4.96	4.62
90.0	7.10	6.77	6.39	6.00	5.62	5.23	4.84	4.40	4.18
135.0	7.21	6.83	6.55	6.22	5.89	5.62	5.29	5.01	4.51
180.0	7.38	7.10	6.83	6.61	6.22	6.00	5.67	5.34	4.62
225.0	7.32	7.05	6.72	6.50	6.28	6.00	5.73	5.45	4.62
270.0	7.60	7.21	6.77	6.50	6.17	5.78	5.40	5.07	4.46
315.0	7.21	6.94	6.61	6.33	6.00	5.67	5.40	5.12	4.68
360.0	7.49	7.10	6.83	6.50	6.22	6.00	5.78	5.45	5.01

Intensity data(cd)

Appendix Page: 16 Total:16

C/ $\gamma(^{\circ})$	90.0
0.0	4.73
45.0	4.40
90.0	4.18
135.0	4.29
180.0	4.35
225.0	4.40
270.0	4.18
315.0	4.40
360.0	4.73