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Nata

LumCAT: 2-1284-N	
Luminaire: 92.70.064.00	
Report No: NATA0100	Voltage(V): 36.0000
Test No: GC2018072812	Current(A): 0.3000
LampCAT: BRIDGELUX V6HD	Power (W): 10.8000
Lamp flux(lm): 1137.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 57	Width(mm): 57
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 934.67
Efficiency(%): 82.21%
Lumens(lm)/Power(W): 86.88
Central intensity(cd): 3941.900
Maximum intensity(cd): 3941.900
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=20.0
 [C90/270]Total=20.0
Field angle(10%Imax): [C0/180]Total=55.1
 [C90/270]Total=55.1
Maximum s/h(1/2): C0_180=0.34 C90_270=0.34
Maximum s/h(1/4): C0_180=0.39 C90_270=0.39
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.52%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.359%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/7/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3941.901	3.772	3.772	.332%	.404%
2.0	3842.386	29.409	33.182	2.587%	3.550%
4.0	3567.861	54.583	87.765	4.801%	9.390%
6.0	3113.164	71.368	159.132	6.277%	17.025%
8.0	2544.776	77.673	236.805	6.831%	25.336%
10.0	1968.060	74.950	311.756	6.592%	33.355%
12.0	1557.683	71.027	382.783	6.247%	40.954%
14.0	1235.335	65.543	448.325	5.765%	47.966%
16.0	1026.182	62.034	510.359	5.456%	54.603%
18.0	823.162	55.787	566.146	4.907%	60.572%
20.0	675.301	50.654	616.8	4.455%	65.991%
22.0	564.583	46.384	663.184	4.080%	70.954%
24.0	483.141	43.097	706.282	3.790%	75.565%
26.0	429.006	41.245	747.527	3.628%	79.977%
28.0	383.557	39.492	787.018	3.473%	84.203%
30.0	337.971	37.061	824.079	3.260%	88.168%
32.0	250.452	29.107	853.186	2.560%	91.282%
34.0	140.669	17.251	870.438	1.517%	93.127%
36.0	59.936	7.726	878.164	.680%	93.954%
38.0	34.472	4.655	882.818	.409%	94.452%
40.0	27.012	3.808	886.626	.335%	94.859%
42.0	22.614	3.319	889.945	.292%	95.215%
44.0	19.765	3.011	892.956	.265%	95.537%
46.0	17.769	2.803	895.759	.247%	95.837%
48.0	16.483	2.686	898.446	.236%	96.124%
50.0	15.677	2.634	901.08	.232%	96.406%
52.0	15.230	2.632	903.712	.231%	96.687%
54.0	14.693	2.607	906.319	.229%	96.966%
56.0	13.936	2.534	908.853	.223%	97.237%
58.0	12.904	2.400	911.253	.211%	97.494%
60.0	11.954	2.270	913.523	.200%	97.737%
62.0	11.011	2.132	915.655	.188%	97.965%
64.0	10.165	2.004	917.659	.176%	98.180%
66.0	9.470	1.897	919.556	.167%	98.383%
68.0	8.919	1.814	921.37	.160%	98.577%
70.0	7.997	1.648	923.018	.145%	98.753%
72.0	7.150	1.491	924.509	.131%	98.913%
74.0	6.724	1.417	925.927	.125%	99.064%

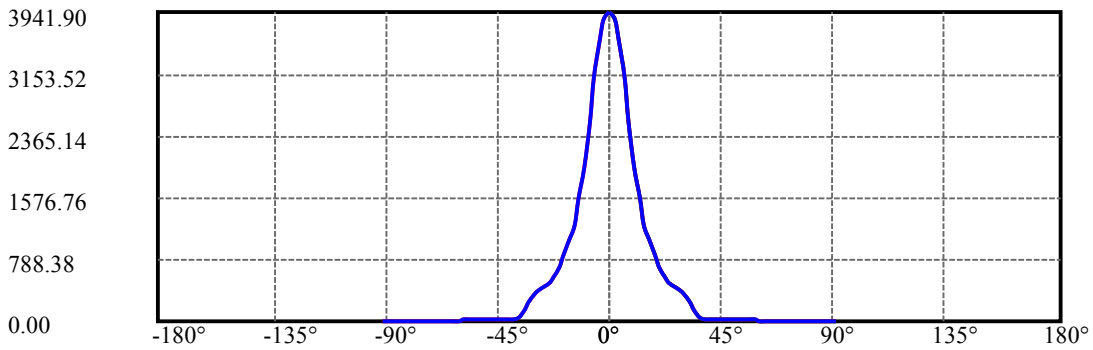
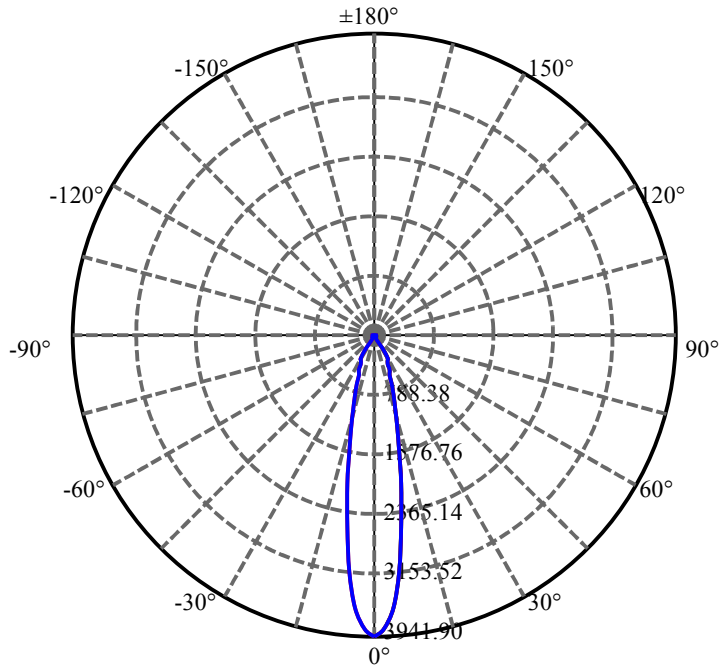
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.400	1.362	927.289	.120%	99.210%
78.0	6.077	1.304	928.592	.115%	99.349%
80.0	5.753	1.243	929.835	.109%	99.482%
82.0	5.457	1.185	931.02	.104%	99.609%
84.0	5.155	1.124	932.145	.099%	99.729%
86.0	4.859	1.063	933.208	.093%	99.843%
88.0	4.528	0.993	934.2	.087%	99.949%
90.0	4.315	0.473	934.673	.042%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	824.08	72.48%	88.17%
0-40	886.63	77.98%	94.86%
0-60	913.52	80.35%	97.74%
0-90	934.20	82.16%	99.95%
0-120	934.20	82.16%	99.95%
0-180	934.67	82.21%	100.00%
60-90	22.95	2.02%	2.46%
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%
0-26.01	747.74	65.76%	80.00%

ZONAL LUMEN SUMMARY

0-10	311.76
10-20	305.04
20-30	207.28
30-40	62.55
40-50	14.45
50-60	12.44
60-70	9.49
70-80	6.82
80-90	4.37
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: —————

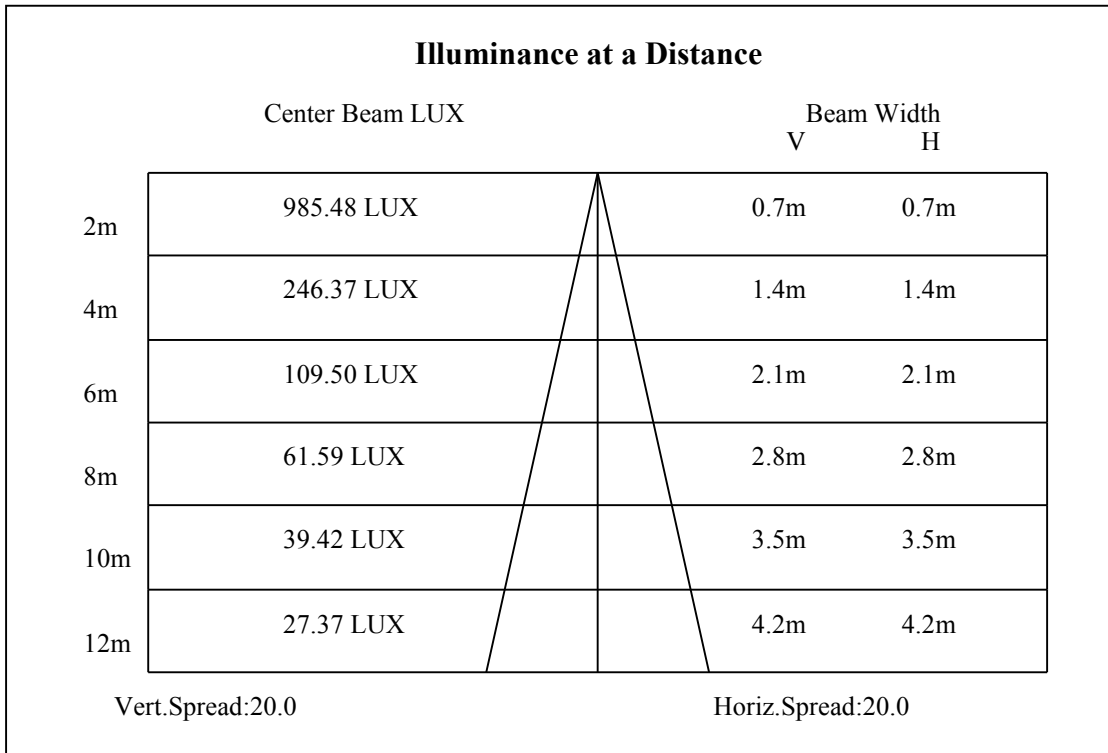
C90/C270: —————

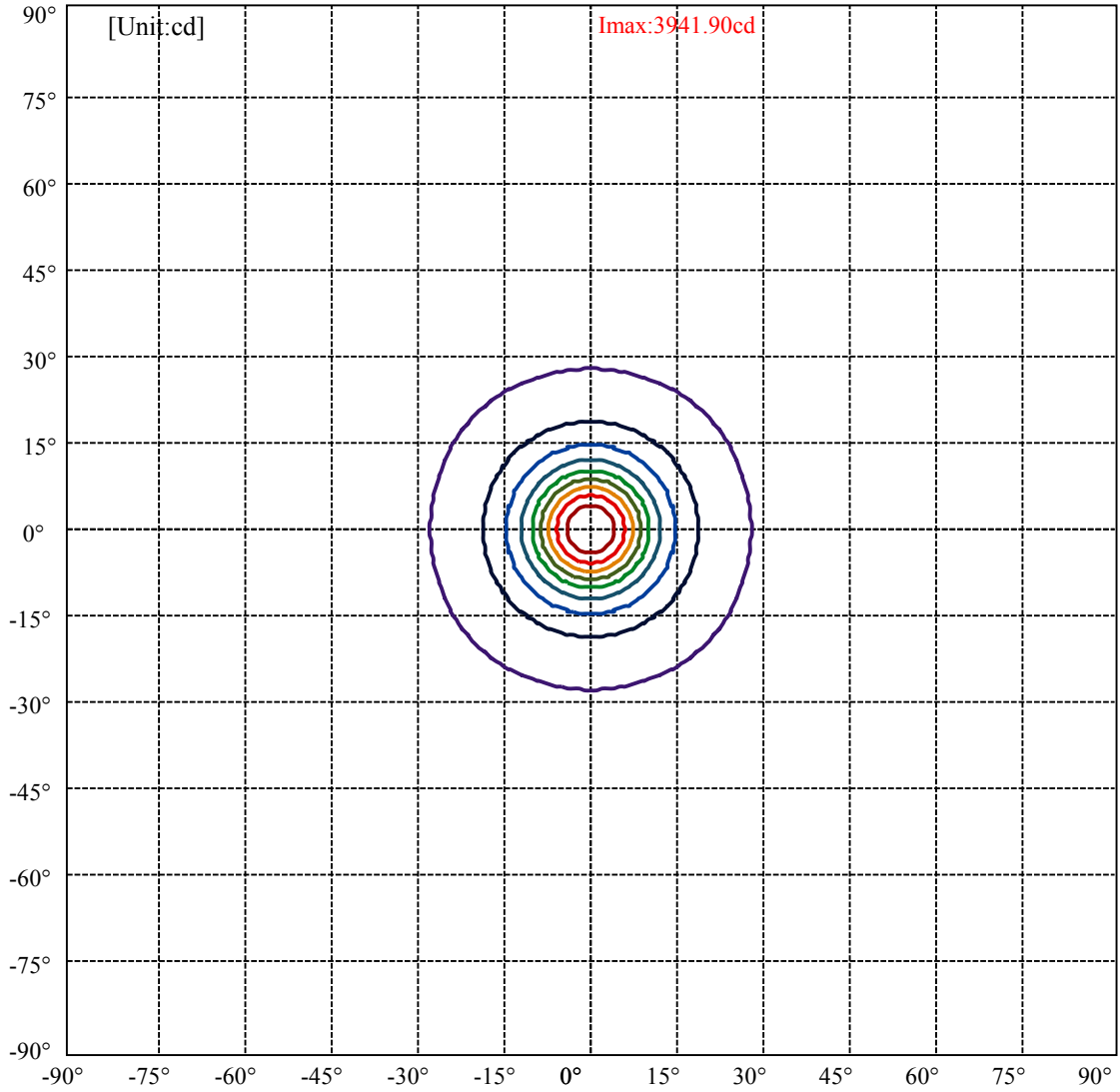
Field angle(10%Imax):C0/180Left:27.5 Right:27.5

:C90/270Left:27.5 Right:27.5

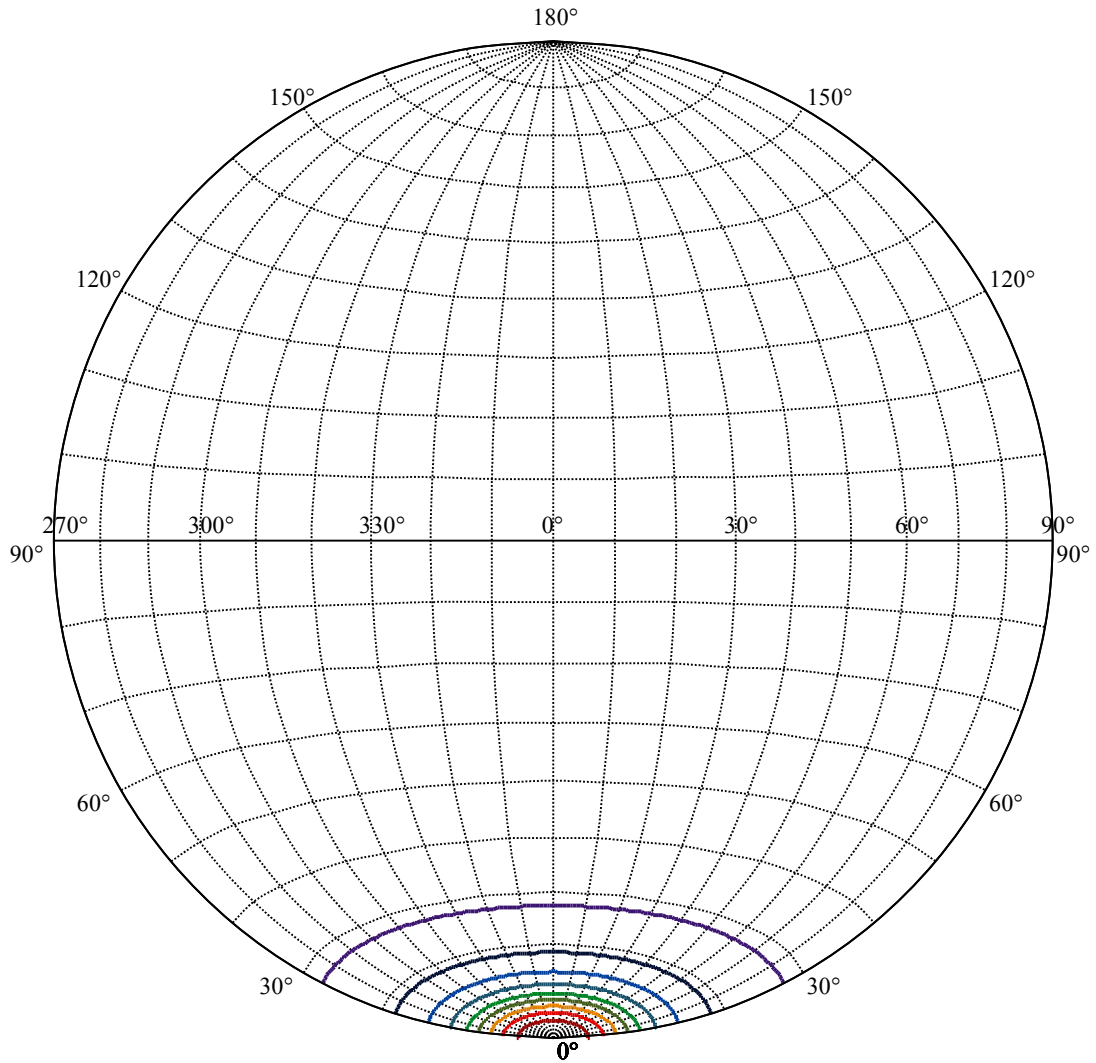
Beam Angle(50%Imax):C0/180Left:10.0 Right:10.0

:C90/270Left:10.0 Right:10.0





(10%Imax) 394.19	—
(20%Imax) 788.38	—
(30%Imax) 1182.57	—
(40%Imax) 1576.76	—
(50%Imax) 1970.95	—
(60%Imax) 2365.14	—
(70%Imax) 2759.33	—
(80%Imax) 3153.52	—
(90%Imax) 3547.71	—



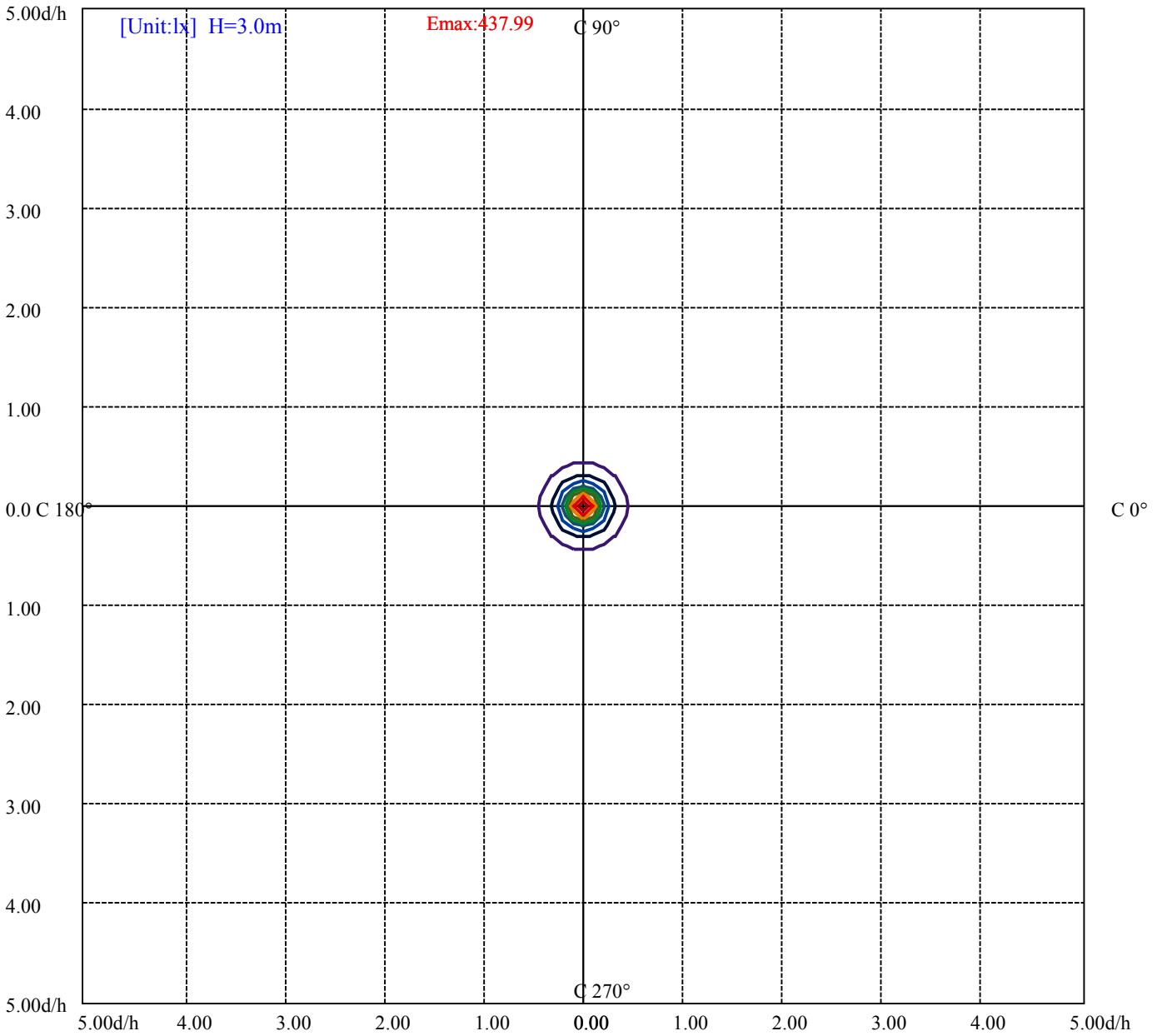
House

[Unit:cd]

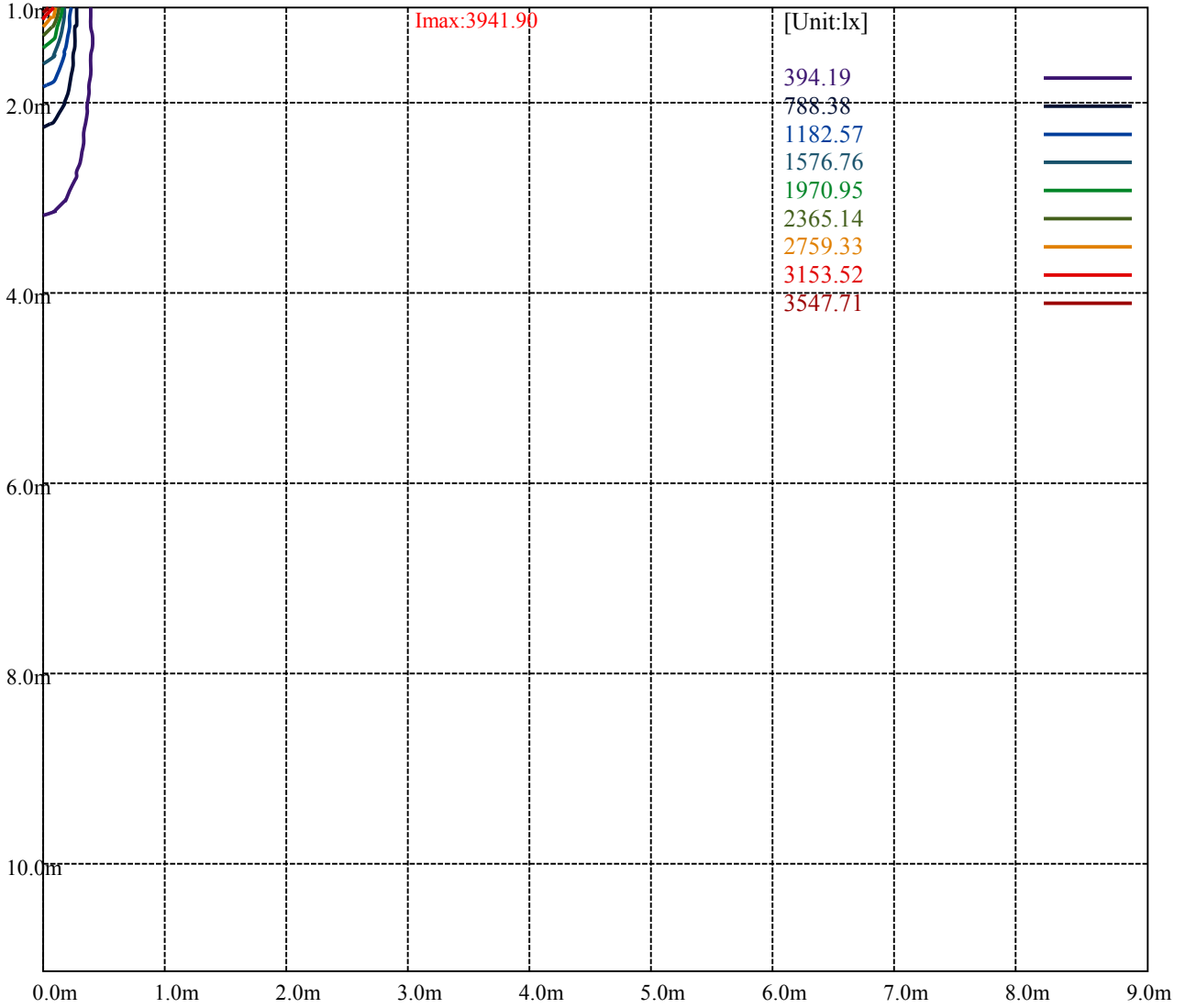
Road

Imax:3941.90

(10%Imax) 394.19	—
(20%Imax) 788.38	—
(30%Imax) 1182.57	—
(40%Imax) 1576.76	—
(50%Imax) 1970.95	—
(60%Imax) 2365.14	—
(70%Imax) 2759.33	—
(80%Imax) 3153.52	—
(90%Imax) 3547.71	—



- (10%Emax) 43.79878
- (20%Emax) 87.59767
- (30%Emax) 131.3967
- (40%Emax) 175.1956
- (50%Emax) 218.9944
- (60%Emax) 262.7933
- (70%Emax) 306.5911
- (80%Emax) 350.39
- (90%Emax) 394.1889



Luminance Table

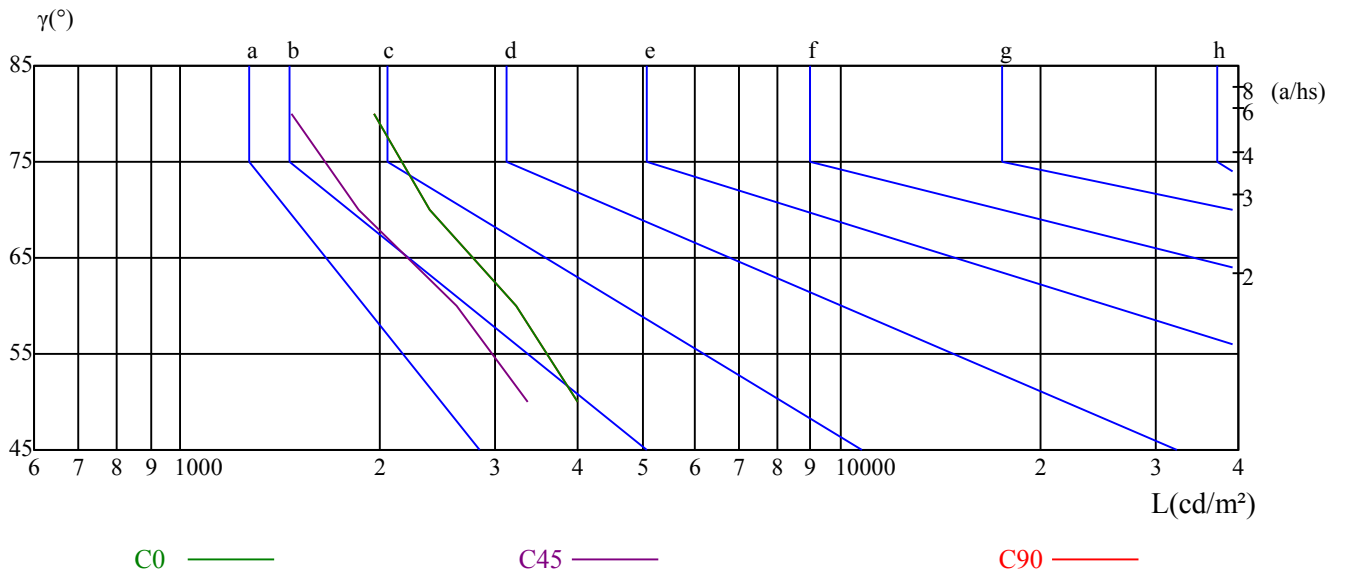
γ	45	50	55	60	65	70	75	80	85
C0	0	3997	0	3233	0	2379	0	1969	0
C45	0	3348	0	2624	0	1863	0	1476	0
C90	0	3997	0	3233	0	2379	0	1969	0

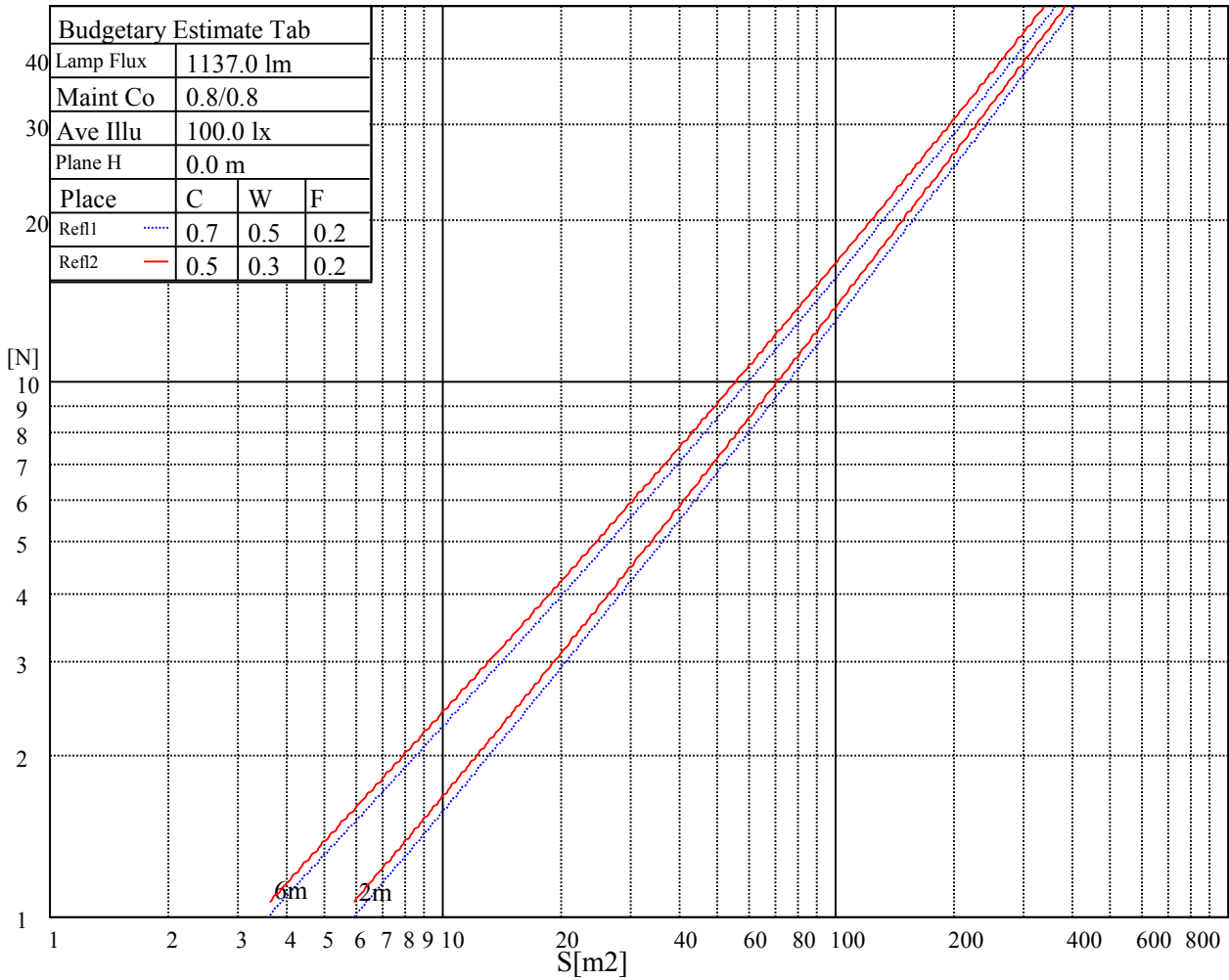
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5974	5974	5974	7660	7660	7660	21096	21096	21096

Glare Table

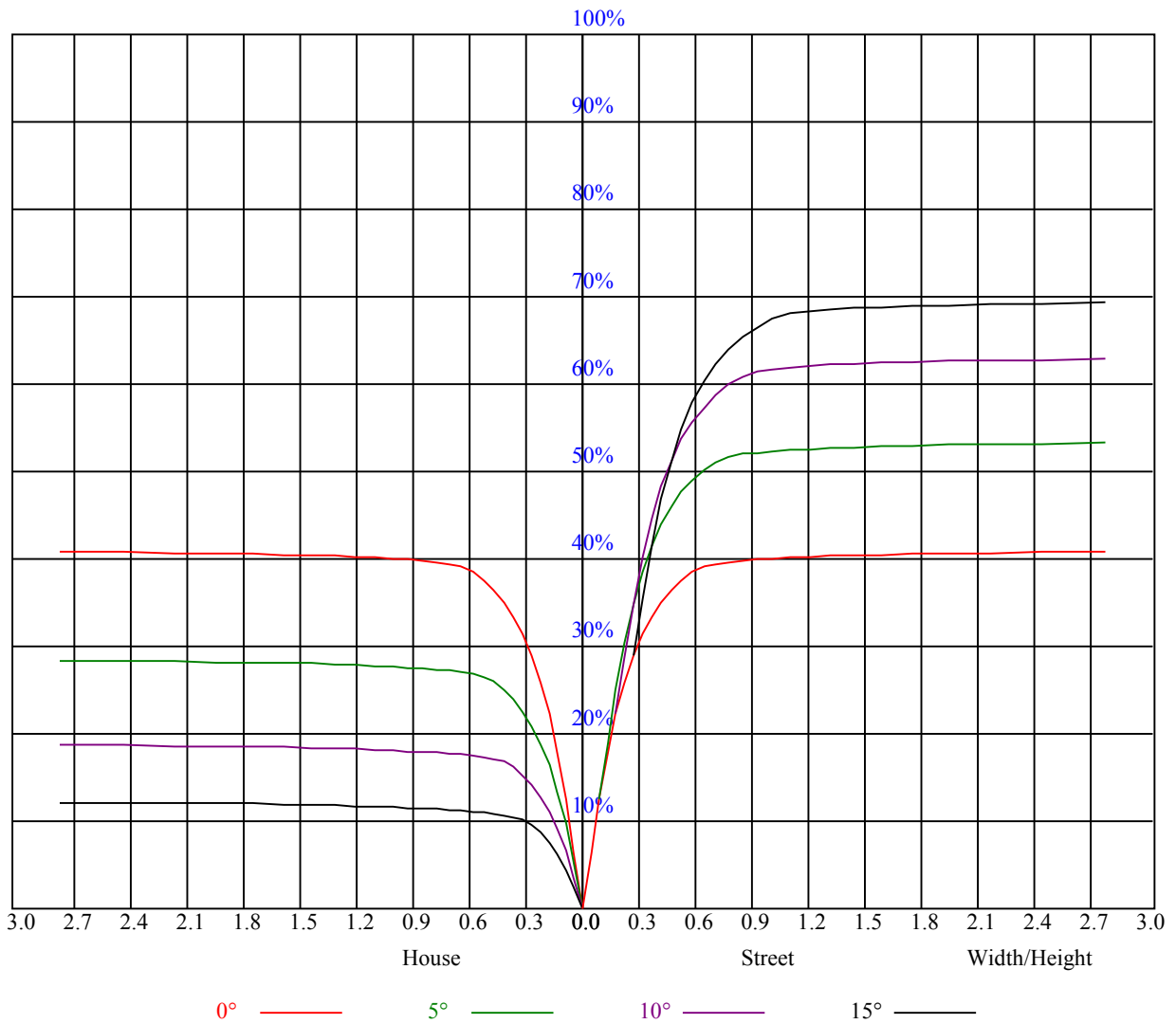
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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



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	3929.38	3875.97	3655.19	3244.47	2731.35	2156.01	1702.89	1376.41	1122.05
45.0	3937.63	3885.33	3675.57	3286.32	2769.89	2207.76	1751.89	1397.33	1129.21
90.0	3955.80	3947.54	3684.37	3320.45	2734.10	2076.18	1667.11	1304.29	1056.86
135.0	3944.79	3946.99	3744.39	3409.64	2870.64	2221.53	1710.05	1362.10	1119.85
180.0	3929.38	3773.02	3476.81	2960.93	2378.44	1850.45	1475.51	1164.99	995.42
225.0	3937.63	3757.05	3411.29	2897.62	2298.60	1745.84	1395.13	1098.15	956.94
270.0	3955.80	3803.85	3460.85	2919.09	2318.98	1728.22	1349.43	1085.16	875.95
315.0	3944.79	3749.34	3434.42	2866.79	2256.21	1758.50	1409.44	1094.25	953.19
360.0	3929.38	3875.97	3655.19	3244.47	2731.35	2156.01	1702.89	1376.41	1122.05
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	894.12	730.05	606.17	514.23	456.97	406.32	366.13	287.94	165.55
45.0	900.72	732.80	604.52	508.72	447.06	394.20	354.56	290.70	180.36
90.0	830.25	665.47	545.83	463.13	406.81	359.19	317.62	250.45	159.28
135.0	902.92	749.87	612.78	518.63	463.57	405.77	368.33	311.62	191.49
180.0	800.02	653.19	555.74	480.53	429.27	393.60	342.29	233.00	119.53
225.0	781.75	643.11	543.08	475.47	424.71	386.99	338.60	221.55	107.19
270.0	702.52	576.99	490.55	421.18	373.28	329.79	284.09	200.96	108.13
315.0	772.99	650.93	558.00	483.23	430.38	392.61	332.16	207.40	93.82
360.0	894.12	730.05	606.17	514.23	456.97	406.32	366.13	287.94	165.55
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	66.62	35.84	26.98	21.80	18.83	16.63	15.36	14.76	14.37
45.0	79.06	38.70	28.46	22.74	19.66	17.40	16.08	15.09	14.59
90.0	70.14	37.44	30.06	25.05	21.20	18.66	16.96	15.86	15.25
135.0	80.16	35.29	26.65	21.64	19.10	17.07	15.69	15.03	14.87
180.0	47.73	30.45	24.45	20.92	18.28	16.68	15.58	14.81	14.42
225.0	47.07	33.69	27.53	23.84	20.81	18.72	17.29	16.24	15.64
270.0	50.21	35.68	28.52	24.56	22.19	20.21	18.72	17.45	16.41
315.0	38.48	28.68	23.45	20.37	18.06	16.79	16.19	16.19	16.30
360.0	66.62	35.84	26.98	21.80	18.83	16.63	15.36	14.76	14.37
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	14.15	13.65	12.77	11.95	11.23	10.46	9.74	9.25	8.64
45.0	14.09	13.49	12.77	11.95	11.12	10.24	9.63	8.97	8.31
90.0	14.70	13.93	12.94	12.00	11.12	10.30	9.63	8.86	8.42
135.0	14.70	14.09	12.83	11.84	10.90	10.02	9.25	8.75	8.48
180.0	13.87	13.16	12.39	11.73	10.85	10.08	9.36	9.14	7.65
225.0	14.81	13.87	12.77	11.73	10.79	10.02	9.36	9.03	7.54
270.0	15.42	14.53	13.21	12.06	10.96	10.02	9.36	8.75	7.60
315.0	15.80	14.76	13.54	12.39	11.12	10.19	9.41	8.59	7.32
360.0	14.15	13.65	12.77	11.95	11.23	10.46	9.74	9.25	8.64
C/γ(°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	7.38	6.94	6.66	6.22	5.89	5.62	5.34	5.12	4.73
45.0	7.43	6.88	6.50	6.22	5.89	5.51	5.23	5.01	4.68
90.0	7.27	6.72	6.39	6.06	5.67	5.34	4.96	4.62	4.35
135.0	7.10	6.61	6.33	6.06	5.73	5.40	5.12	4.84	4.62
180.0	7.05	6.72	6.44	6.11	5.84	5.62	5.34	4.90	4.62
225.0	7.05	6.72	6.39	6.11	5.84	5.62	5.34	5.01	4.62
270.0	7.05	6.66	6.28	5.95	5.56	5.23	4.90	4.57	4.24
315.0	6.88	6.55	6.22	5.89	5.62	5.34	5.01	4.79	4.35
360.0	7.38	6.94	6.66	6.22	5.89	5.62	5.34	5.12	4.73

Intensity data(cd)

C/γ(°)	90.0
0.0	4.35
45.0	4.35
90.0	4.29
135.0	4.35
180.0	4.40
225.0	4.40
270.0	4.18
315.0	4.18
360.0	4.35