
乐达凯

Client:

LumCAT: LYL3205LAJD1BN-2700K

Luminaire: LED Lamp

Report No:

Ballast type:

Test No: LCZP25090313

Voltage(V): 120.000

LampCAT:

Current(A): 0.367

Lamp flux(lm): 2366.9

Power (W): 40.090

Number of Lamps: 1

PF: 0.909

Length(mm): 790

Width(mm): 70

Phm Type: C

Height(mm): 100

Photometric Results

Lumens(lm): 2366.94, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 59.04

Central intensity(cd): 8.014, Maximum intensity(cd): 966.174

Angle of maximum intensity: C=90.0 γ =120.0

Beam Angle(50%Imax): [C0/180]Total=287.6

[C90/270]Total=107.0

Field angle(10%Imax): [C0/180]Total=357.6

[C90/270]Total=157.8

Maximum s/h(1/2): C0_180=3.69 C90_270=10.06

Maximum s/h(1/4): C0_180=3.55 C90_270=9.15

Up flux rate of lamp(%): 49.70%

Down flux rate of lamp(%): 50.30%

Up flux rate of LUM(%): 49.70%

Down flux rate of LUM(%): 50.30%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 22.711%

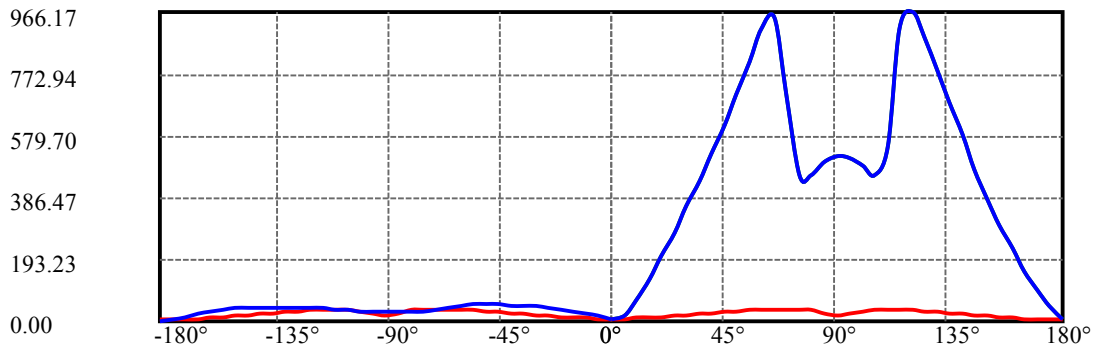
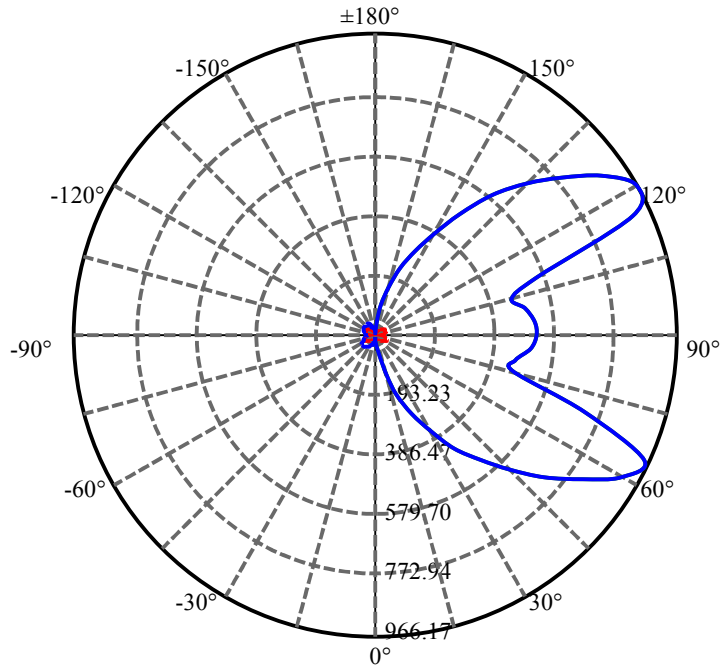
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7.422	0.000	0	0.00%	0.00%
5.0	12.386	0.237	0.237	0.01%	0.01%
10.0	27.966	1.444	1.68	0.06%	0.07%
15.0	49.285	4.582	6.263	0.19%	0.26%
20.0	73.179	10.093	16.356	0.43%	0.69%
25.0	96.759	17.823	34.179	0.75%	1.44%
30.0	121.565	27.629	61.808	1.17%	2.61%
35.0	147.186	39.575	101.384	1.67%	4.28%
40.0	172.883	53.401	154.785	2.26%	6.54%
45.0	199.389	68.929	223.714	2.91%	9.45%
50.0	226.152	85.987	309.701	3.63%	13.08%
55.0	253.292	104.247	413.948	4.40%	17.49%
60.0	281.429	123.599	537.547	5.22%	22.71%
65.0	297.757	140.801	678.348	5.95%	28.66%
70.0	266.057	142.761	821.11	6.03%	34.69%
75.0	191.739	119.660	940.77	5.06%	39.75%
80.0	152.700	92.162	1032.932	3.89%	43.64%
85.0	141.616	79.973	1112.905	3.38%	47.02%
90.0	142.223	77.717	1190.622	3.28%	50.30%
95.0	143.331	78.187	1268.809	3.30%	53.61%
100.0	145.706	78.538	1347.347	3.32%	56.92%
105.0	168.133	83.975	1431.322	3.55%	60.47%
110.0	225.413	102.866	1534.188	4.35%	64.82%
115.0	293.678	131.437	1665.625	5.55%	70.37%
120.0	293.166	142.663	1808.288	6.03%	76.40%
125.0	267.313	129.553	1937.841	5.47%	81.87%
130.0	237.624	109.790	2047.631	4.64%	86.51%
135.0	208.276	90.101	2137.732	3.81%	90.32%
140.0	178.454	71.606	2209.338	3.03%	93.34%
145.0	148.628	54.571	2263.909	2.31%	95.65%
150.0	121.959	39.846	2303.755	1.68%	97.33%
155.0	97.628	27.789	2331.544	1.17%	98.50%
160.0	74.181	18.020	2349.564	0.76%	99.27%
165.0	51.865	10.388	2359.952	0.44%	99.70%
170.0	32.433	5.000	2364.952	0.21%	99.92%
175.0	16.537	1.752	2366.704	0.07%	99.99%
180.0	3.533	0.240	2366.944	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	61.81	2.61%	2.61%
0-40	154.78	6.54%	6.54%
0-60	537.55	22.71%	22.71%
0-90	1190.62	50.30%	50.30%
0-120	1808.29	76.40%	76.40%
0-180	2366.94	100.00%	100.00%
60-90	653.08	27.59%	27.59%
90-120	617.67	26.10%	26.10%
90-130	857.01	36.21%	36.21%
90-150	1113.13	47.03%	47.03%
90-180	1176.08	49.69%	49.69%
0-123.29	1893.56	80.00%	80.00%

ZONAL LUMEN SUMMARY

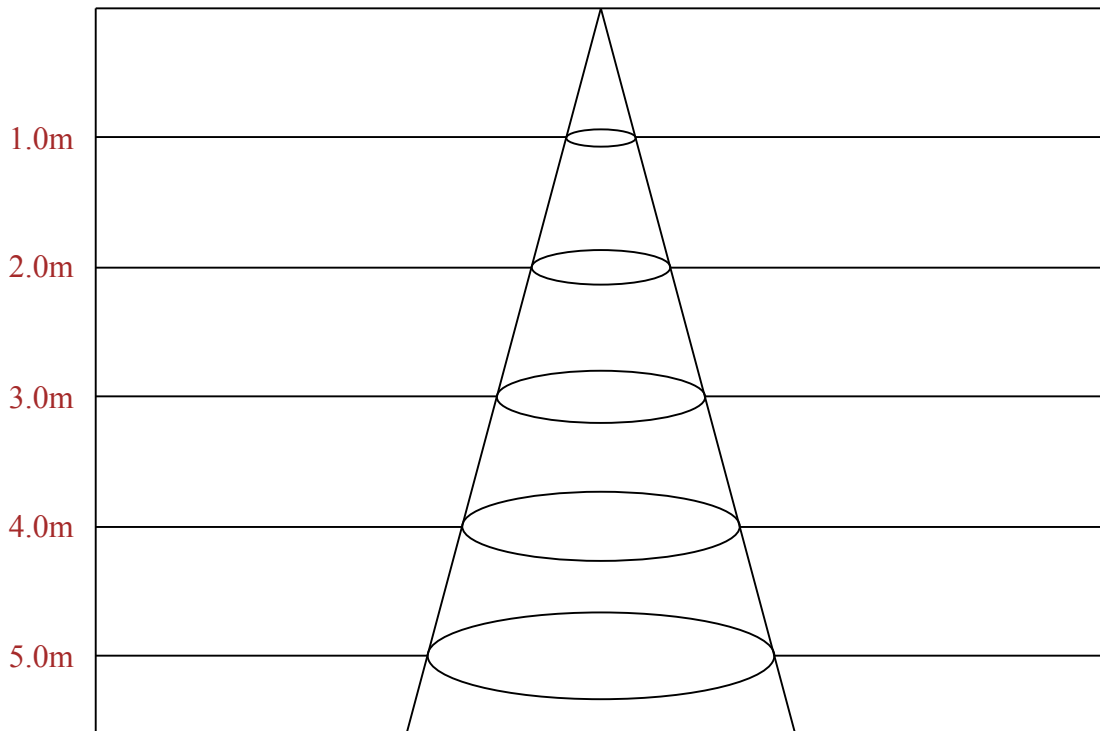
0-10	1.68
10-20	14.68
20-30	45.45
30-40	92.98
40-50	154.92
50-60	227.85
60-70	283.56
70-80	211.82
80-90	157.69
90-100	156.73
100-110	186.84
110-120	274.10
120-130	239.34
130-140	161.71
140-150	94.42
150-160	45.81
160-170	15.39
170-180	1.75



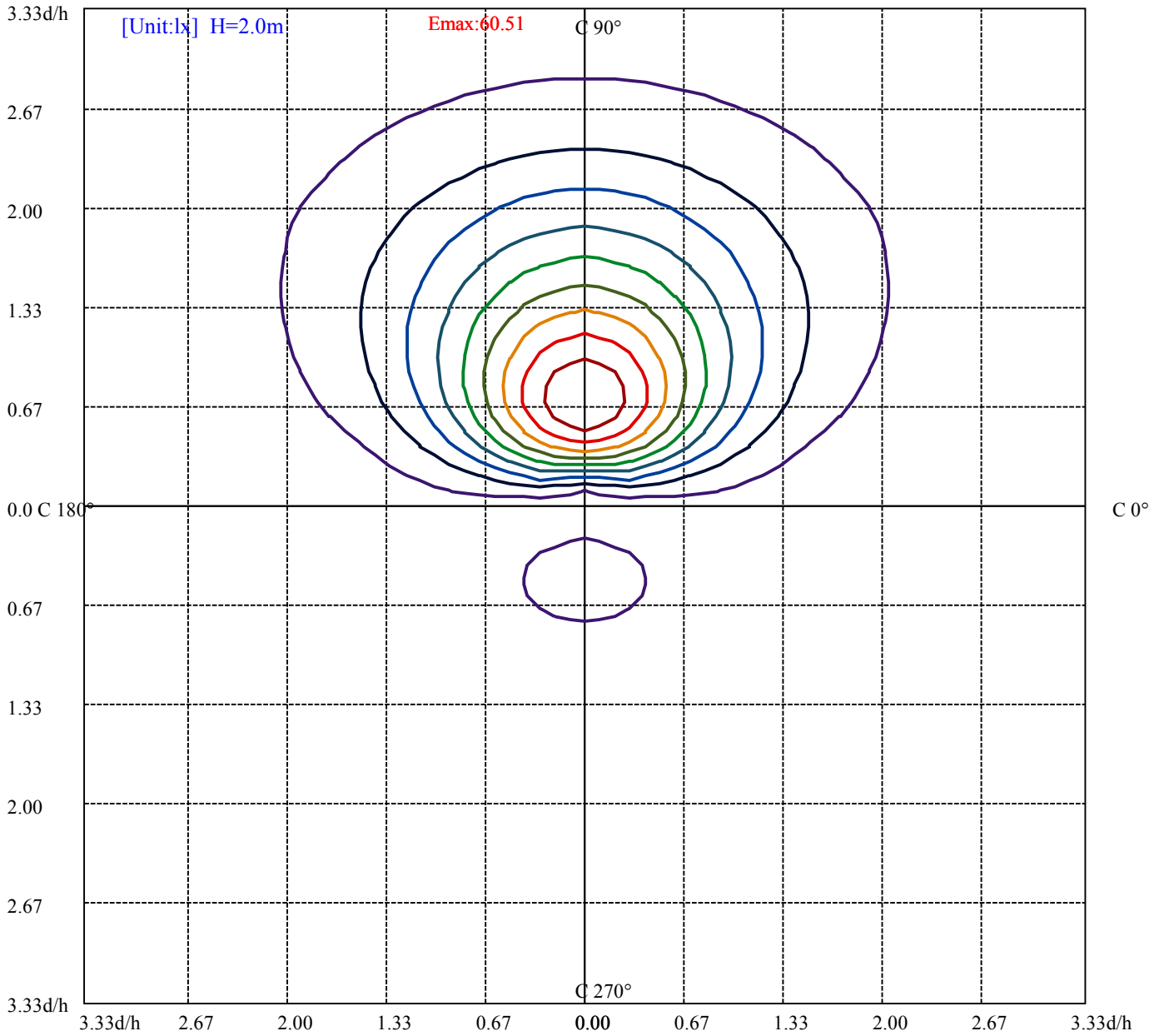
C90(Max): ——
 C0/C180: ——
 C90/C270: ——

Field angle(10%Imax):C0/180Left:248.8 Right:108.8
 :C90/270Left:107.6 Right:50.2

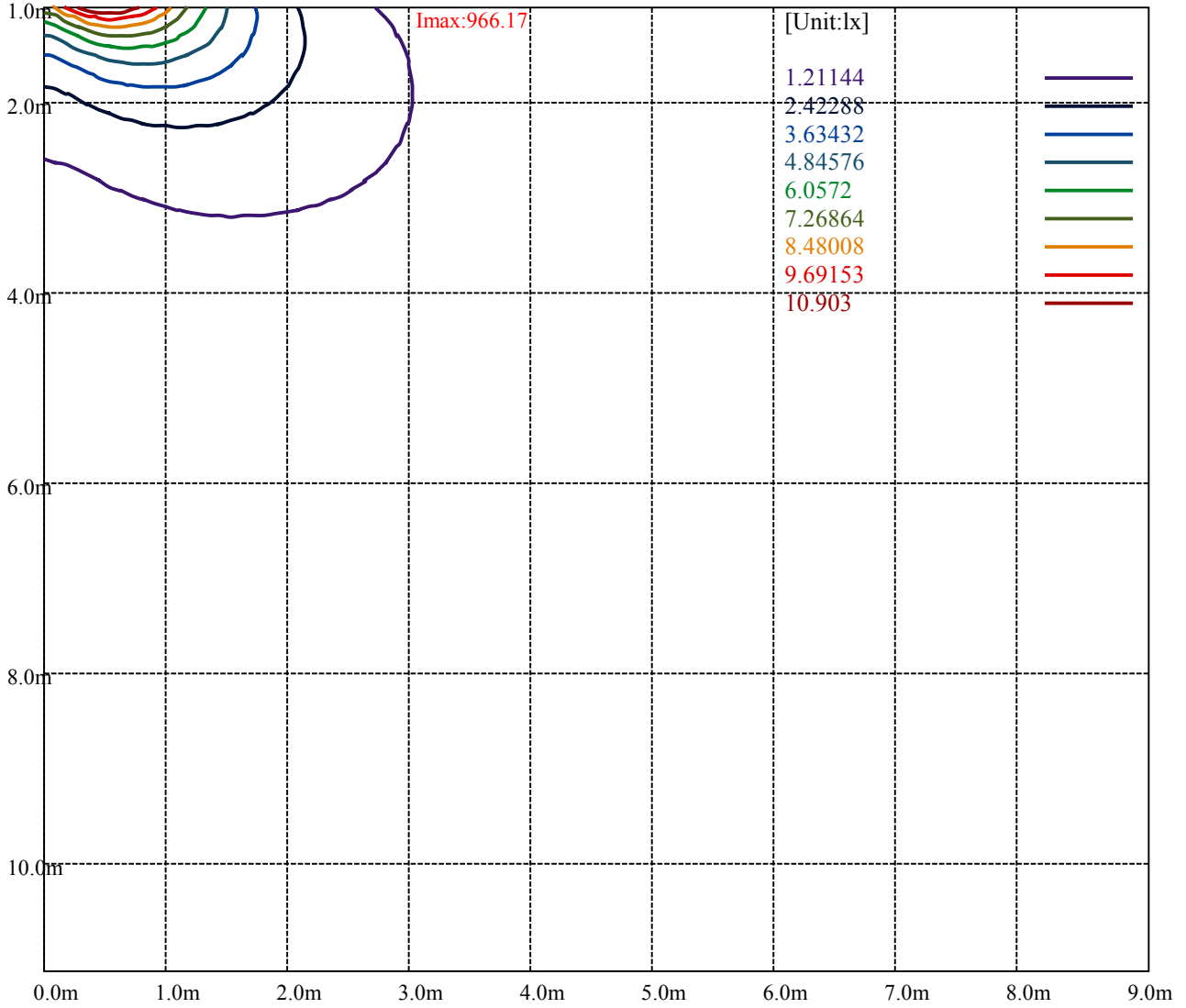
Beam Angle(50%Imax):C0/180Left:213.8 Right:73.8
 :C90/270Left:82.4 Right:24.6



Max , Ave Beam angle of C90 plane 353.37



- (10%Emax) 6.050625
- (20%Emax) 12.10122
- (30%Emax) 18.15185
- (40%Emax) 24.20247
- (50%Emax) 30.253
- (60%Emax) 36.30375
- (70%Emax) 42.35425
- (80%Emax) 48.405
- (90%Emax) 54.4555



Luminance Table

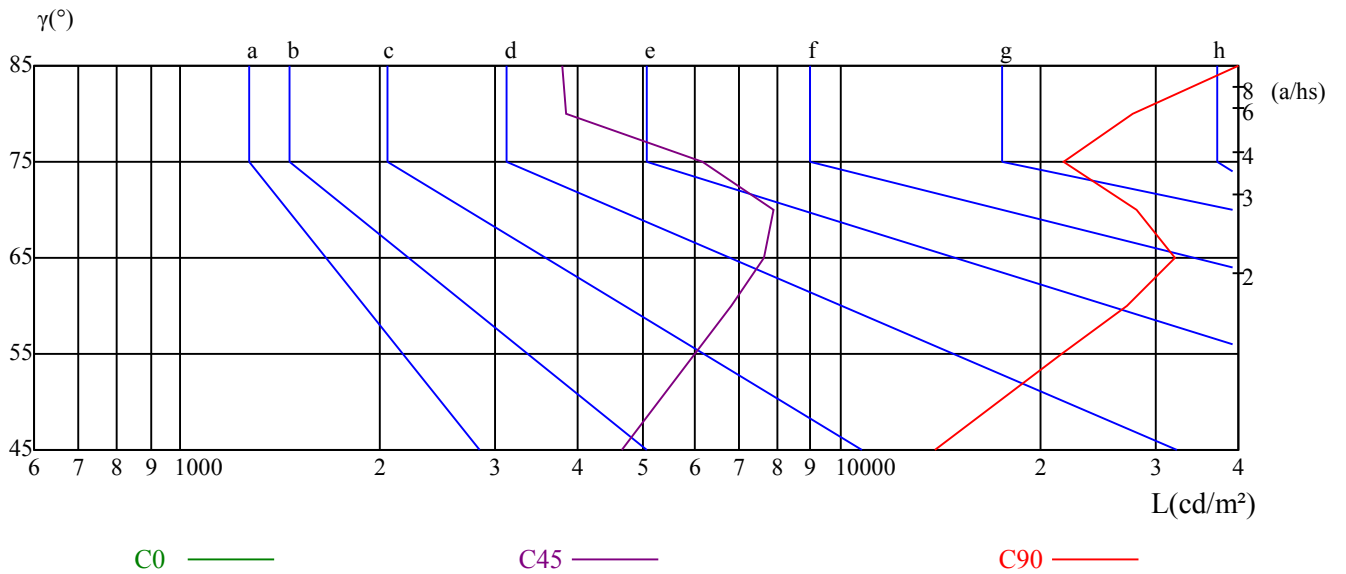
γ	45	50	55	60	65	70	75	80	85
C0	293	321	349	376	400	418	420	379	279
C45	4670	5301	6002	6820	7636	7888	6168	3824	3795
C90	13878	17271	21607	27060	32009	27970	21750	27686	42242

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1627	21263	13855	2657	17123	16925	4828	54495	28126

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	1.07	1.07	1.07	0.99	0.99	0.99	0.84	0.84	0.84	0.69	0.69	0.69	0.56	0.56	0.56	0.50
1	0.88	0.82	0.77	0.81	0.76	0.71	0.67	0.63	0.60	0.55	0.52	0.49	0.43	0.41	0.39	0.34
2	0.74	0.66	0.59	0.67	0.60	0.54	0.56	0.50	0.46	0.45	0.41	0.37	0.35	0.32	0.29	0.24
3	0.63	0.53	0.46	0.57	0.49	0.43	0.47	0.41	0.36	0.38	0.33	0.29	0.29	0.25	0.22	0.18
4	0.54	0.44	0.37	0.49	0.41	0.34	0.40	0.34	0.28	0.32	0.27	0.23	0.25	0.21	0.17	0.13
5	0.47	0.38	0.30	0.43	0.34	0.28	0.35	0.28	0.23	0.28	0.23	0.18	0.21	0.17	0.14	0.10
6	0.42	0.32	0.25	0.38	0.29	0.23	0.31	0.24	0.19	0.25	0.19	0.15	0.19	0.15	0.11	0.08
7	0.37	0.28	0.21	0.34	0.26	0.20	0.28	0.21	0.16	0.22	0.17	0.13	0.17	0.13	0.09	0.07
8	0.33	0.24	0.18	0.30	0.22	0.17	0.25	0.18	0.14	0.20	0.15	0.11	0.15	0.11	0.08	0.05
9	0.30	0.22	0.16	0.27	0.20	0.15	0.22	0.16	0.12	0.18	0.13	0.09	0.14	0.10	0.07	0.04
10	0.27	0.19	0.14	0.25	0.18	0.13	0.20	0.15	0.10	0.16	0.12	0.08	0.12	0.09	0.06	0.04

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	8.01	7.83	9.11	10.93	13.11	15.48	18.21	21.31	24.86
15.0	7.29	9.38	15.57	24.32	36.52	51.82	68.30	85.33	102.36
30.0	7.19	12.11	25.77	53.09	85.15	118.48	151.00	186.24	222.21
45.0	7.38	13.75	41.98	83.51	133.24	180.78	232.41	286.60	340.52
60.0	7.47	14.84	53.91	109.19	169.57	233.96	297.98	370.11	437.41
75.0	7.83	16.21	60.93	126.77	191.98	265.56	342.43	421.02	502.89
90.0	7.56	15.85	65.48	130.87	202.45	278.40	358.18	440.33	521.84
105.0	7.56	16.03	63.11	125.22	189.61	265.20	336.87	413.83	493.42
120.0	7.38	15.12	52.27	105.64	163.93	225.58	290.61	353.08	424.03
135.0	9.38	12.93	39.80	81.33	126.13	170.94	219.85	270.03	320.66
150.0	6.01	10.56	25.14	49.09	102.73	109.74	141.07	172.58	203.09
165.0	6.01	8.01	13.75	22.31	33.61	46.36	60.29	74.68	89.07
180.0	8.01	9.11	10.66	12.39	14.39	16.67	19.12	21.67	24.41
195.0	7.29	8.56	10.56	12.66	14.75	16.67	18.40	20.13	21.77
210.0	7.19	10.75	14.57	18.76	22.04	25.41	28.60	31.87	34.88
225.0	7.38	12.84	18.49	23.59	28.41	32.79	36.70	40.71	43.99
240.0	7.47	14.57	21.04	27.05	32.69	37.61	41.89	45.54	48.54
255.0	7.83	15.39	22.68	29.42	35.15	40.53	44.44	47.63	49.82
270.0	7.56	15.76	23.31	29.87	35.97	41.16	45.17	47.90	50.00
285.0	7.56	15.03	22.40	29.23	35.34	40.44	44.35	47.54	47.99
300.0	7.38	14.02	20.40	26.68	28.32	37.52	41.62	45.44	48.36
315.0	9.38	11.93	17.58	22.59	27.50	31.97	36.16	39.98	43.53
330.0	6.01	9.47	13.39	17.12	20.67	24.13	27.32	30.51	33.61
345.0	6.01	7.19	9.29	11.20	13.02	15.03	16.57	18.40	19.94
360.0	8.01	7.83	9.11	10.93	13.11	15.48	18.21	21.31	24.86
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	28.51	32.06	35.24	38.25	40.62	41.98	41.89	38.43	28.41
15.0	119.12	134.79	147.99	161.83	173.04	182.32	184.51	158.28	89.07
30.0	257.46	291.70	325.12	358.09	388.33	410.00	379.13	243.80	145.26
45.0	395.43	447.52	504.53	565.10	618.56	615.09	445.06	262.10	251.54
60.0	513.73	585.86	664.91	747.51	803.52	707.53	416.92	340.06	367.93
75.0	588.87	678.66	769.37	874.19	915.36	708.72	434.23	423.85	460.27
90.0	611.36	706.53	809.26	912.26	951.15	713.00	458.36	456.72	498.16
105.0	577.30	665.82	755.98	856.52	897.60	724.47	443.24	422.75	459.18
120.0	489.69	562.00	638.77	717.37	775.38	710.36	434.86	337.78	363.10
135.0	371.48	423.21	474.21	530.40	580.03	584.86	456.08	269.39	244.89
150.0	235.15	266.11	296.25	326.49	355.00	375.58	359.55	255.64	145.08
165.0	101.82	115.48	127.50	140.25	150.09	158.19	162.29	147.35	93.71
180.0	27.23	29.69	32.06	33.97	35.43	35.97	34.15	27.87	18.12
195.0	23.41	25.04	26.59	28.05	29.42	30.33	28.60	23.04	12.39
210.0	37.70	40.25	42.62	44.72	45.08	42.07	34.79	24.50	18.12
225.0	46.99	49.45	51.46	51.18	48.27	41.71	33.97	25.14	23.04
240.0	50.64	52.37	52.55	50.27	44.90	38.71	31.87	26.23	25.04
255.0	51.36	52.55	51.64	47.81	42.80	37.79	31.42	30.14	26.41
270.0	51.36	52.27	51.27	50.45	42.71	37.70	31.78	28.32	27.14
285.0	51.46	52.64	51.73	48.18	43.44	37.98	31.87	27.59	26.59
300.0	50.54	52.37	52.55	50.64	45.63	39.16	32.51	26.59	25.32
315.0	46.54	48.91	51.09	50.73	48.36	42.17	33.88	25.32	22.77
330.0	36.43	39.07	41.53	43.71	43.99	41.07	33.88	23.41	17.21
345.0	21.77	23.31	24.77	26.32	27.50	28.60	26.87	20.49	10.02
360.0	28.51	32.06	35.24	38.25	40.62	41.98	41.89	38.43	28.41

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Appendix Page: 11 Total:12

Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	16.48	18.31	31.78	39.43	41.71	40.80	38.80	36.34	33.33
15.0	60.74	61.20	116.84	173.22	174.77	164.20	151.36	136.52	122.13
30.0	145.53	144.53	162.20	321.39	409.27	405.72	375.58	327.77	285.23
45.0	260.01	257.64	246.35	336.69	577.76	642.23	602.44	544.06	480.67
60.0	381.31	378.40	358.55	365.83	586.68	814.54	799.88	724.20	642.32
75.0	476.85	474.03	450.98	426.85	541.69	908.25	929.93	845.14	743.51
90.0	515.28	512.00	486.23	453.90	547.61	909.53	966.17	888.67	782.39
105.0	476.12	473.02	450.16	427.21	536.04	863.90	909.71	831.21	734.31
120.0	376.12	373.30	356.27	362.65	554.99	755.80	769.37	699.15	624.29
135.0	253.00	251.36	241.34	315.56	503.90	589.96	571.02	519.83	457.72
150.0	140.34	139.61	156.55	274.03	361.64	370.93	343.25	302.27	259.92
165.0	58.10	57.47	92.62	143.16	149.81	141.43	130.23	117.76	105.64
180.0	18.31	28.23	32.60	34.24	33.24	30.87	28.51	25.86	23.31
195.0	11.57	19.76	23.04	23.13	23.13	23.59	23.95	23.22	21.86
210.0	17.94	22.59	28.96	33.79	34.97	35.43	34.70	33.88	33.33
225.0	22.95	24.50	30.14	35.24	39.62	41.62	41.98	41.44	40.34
240.0	25.04	25.86	26.32	34.15	37.79	41.53	43.53	43.90	43.62
255.0	26.50	27.50	29.96	34.15	37.34	40.44	43.35	44.08	44.17
270.0	27.14	28.23	30.78	34.70	37.79	40.62	42.99	44.08	44.08
285.0	26.50	27.59	30.51	34.88	38.34	41.53	43.99	44.44	44.44
300.0	25.23	26.14	30.60	36.25	40.44	43.81	44.99	44.99	44.62
315.0	22.86	25.14	31.69	37.70	42.53	43.62	43.71	42.71	40.89
330.0	17.39	23.50	30.51	34.61	36.34	36.43	35.79	33.51	30.87
345.0	12.02	20.04	21.95	22.40	22.49	21.49	20.76	20.49	19.94
360.0	16.48	18.31	31.78	39.43	41.71	40.80	38.80	36.34	33.33
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	29.96	26.05	22.31	19.03	15.85	12.02	9.11	7.47	6.47
15.0	107.01	92.62	79.14	65.66	52.27	39.16	25.14	13.93	8.74
30.0	246.62	211.65	177.77	146.08	115.75	87.88	58.01	31.78	13.48
45.0	411.28	341.52	286.42	233.60	186.60	138.15	97.72	52.82	20.58
60.0	560.27	467.92	381.59	311.92	246.35	185.15	129.69	76.96	30.42
75.0	650.25	557.26	451.62	361.19	284.23	216.66	151.36	94.99	41.98
90.0	684.04	584.86	475.03	379.13	301.54	226.68	157.64	98.54	48.54
105.0	642.05	550.34	446.70	358.27	282.23	215.02	147.26	94.71	44.72
120.0	543.33	452.81	370.57	301.17	241.16	179.77	126.59	79.32	38.07
135.0	387.14	325.31	275.03	225.04	176.40	133.42	96.35	59.56	25.68
150.0	227.50	195.17	163.02	134.69	109.01	82.69	57.37	33.15	14.94
165.0	92.98	80.87	68.30	55.64	43.99	33.61	22.22	13.11	8.01
180.0	20.40	17.21	15.30	13.11	10.38	7.83	6.37	6.19	6.37
195.0	20.22	18.94	17.03	14.94	11.84	11.47	8.65	8.11	7.01
210.0	32.33	31.69	27.14	23.68	20.58	15.76	12.84	10.02	7.74
225.0	39.34	37.79	35.06	31.51	26.59	22.68	16.85	11.29	7.92
240.0	42.62	41.26	39.62	36.34	31.69	26.14	19.76	12.75	7.74
255.0	43.99	42.71	41.35	38.89	34.61	28.78	21.95	12.66	6.65
270.0	43.99	42.89	41.35	39.25	34.97	29.23	22.31	9.47	7.10
285.0	44.17	42.71	40.98	38.25	34.15	28.78	14.57	8.83	9.93
300.0	42.89	40.89	37.98	35.79	31.06	24.32	12.11	11.66	9.65
315.0	38.16	35.79	34.15	30.24	25.68	15.30	11.66	11.38	9.11
330.0	30.14	28.96	24.95	21.86	16.21	11.38	10.56	10.75	8.47
345.0	17.94	15.66	14.66	11.75	9.93	8.47	8.65	8.92	7.56
360.0	29.96	26.05	22.31	19.03	15.85	12.02	9.11	7.47	6.47

Intensity data(cd)

C/γ(°)	180.0
0.0	6.28
15.0	5.74
30.0	5.92
45.0	6.37
60.0	7.10
75.0	7.10
90.0	8.74
105.0	9.65
120.0	9.11
135.0	7.01
150.0	5.92
165.0	5.83
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	6.28