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乐达凯

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Client:

LumCAT: LEMW0518LAJUD\*\*

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.182

Lamp flux(lm): 1179.0

Power (W): 21.690

Number of Lamps: 1

PF: 0.993

Length(mm): 50

Width(mm): 20

Phm Type: C

Height(mm): 410

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Photometric Results

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Lumens(lm): 1178.97, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 54.36

Central intensity(cd): 1.840, Maximum intensity(cd): 334.409

Angle of maximum intensity: C=60.0  $\gamma$ =90.0

Beam Angle(50%Imax): [C0/180]Total=300.0

[C90/270]Total=240.0

Field angle(10%Imax): [C0/180]Total=344.0

[C90/270]Total=309.0

Maximum s/h(1/2): C0\_180=3.67 C90\_270=2.78

Maximum s/h(1/4): C0\_180=3.47 C90\_270=2.93

Up flux rate of lamp(%): 48.29%

Down flux rate of lamp(%): 51.71%

Up flux rate of LUM(%): 48.29%

Down flux rate of LUM(%): 51.71%

CIE Type : General diffuse lighting

Output flux ratio in  $\pi$  solid angle : 18.592%

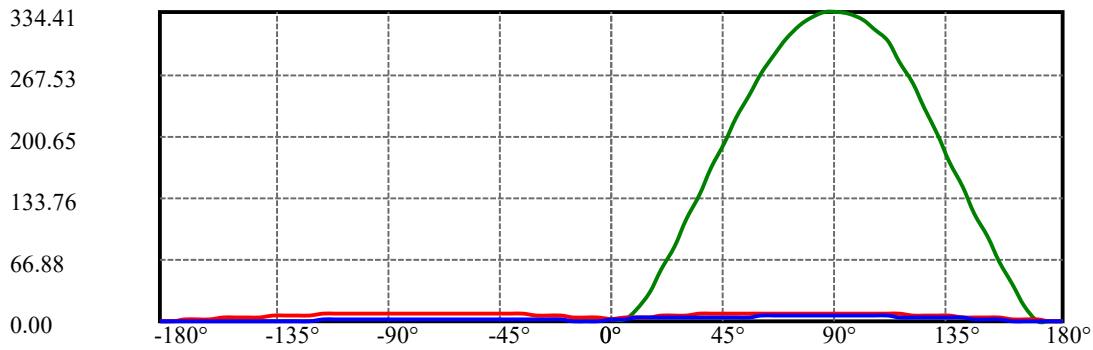
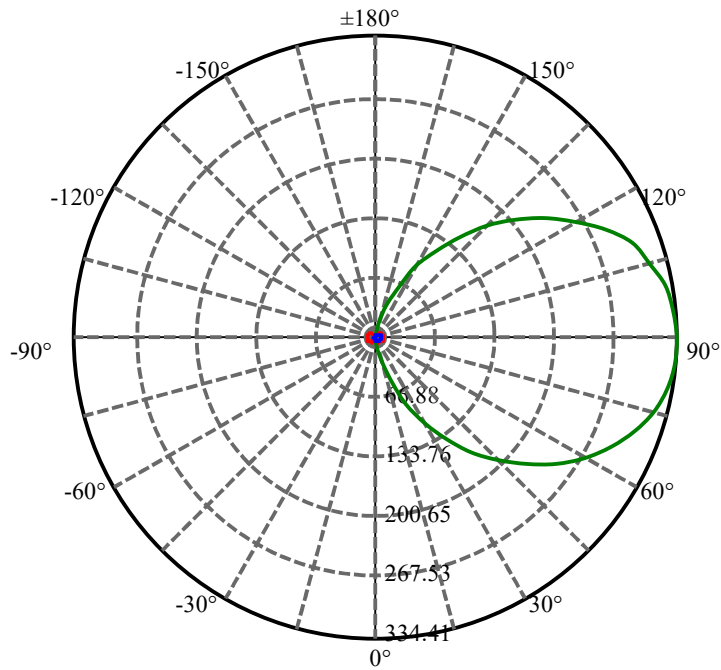
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1.840	0.000	0	0.00%	0.00%
5.0	3.718	0.066	0.066	0.01%	0.01%
10.0	10.081	0.494	0.56	0.04%	0.05%
15.0	20.201	1.796	2.356	0.15%	0.20%
20.0	30.091	4.145	6.501	0.35%	0.55%
25.0	41.245	7.482	13.983	0.63%	1.19%
30.0	52.745	11.895	25.878	1.01%	2.19%
35.0	62.788	17.013	42.891	1.44%	3.64%
40.0	72.716	22.608	65.498	1.92%	5.56%
45.0	82.452	28.731	94.229	2.44%	7.99%
50.0	91.805	35.211	129.44	2.99%	10.98%
55.0	99.970	41.698	171.139	3.54%	14.52%
60.0	107.943	48.059	219.197	4.08%	18.59%
65.0	114.881	54.169	273.366	4.59%	23.19%
70.0	120.746	59.662	333.028	5.06%	28.25%
75.0	125.959	64.485	397.513	5.47%	33.72%
80.0	129.716	68.411	465.925	5.80%	39.52%
85.0	132.246	71.181	537.106	6.04%	45.56%
90.0	132.744	72.556	609.662	6.15%	51.71%
95.0	131.824	72.441	682.103	6.14%	57.86%
100.0	129.831	71.098	753.201	6.03%	63.89%
105.0	125.538	68.329	821.53	5.80%	69.68%
110.0	119.826	64.134	885.664	5.44%	75.12%
115.0	111.393	58.546	944.21	4.97%	80.09%
120.0	102.040	51.886	996.096	4.40%	84.49%
125.0	91.307	44.692	1040.788	3.79%	88.28%
130.0	81.034	37.473	1078.261	3.18%	91.46%
135.0	70.684	30.657	1108.917	2.60%	94.06%
140.0	59.951	24.188	1133.106	2.05%	96.11%
145.0	48.758	18.137	1151.243	1.54%	97.65%
150.0	37.680	12.729	1163.972	1.08%	98.73%
155.0	26.641	8.140	1172.112	0.69%	99.42%
160.0	16.291	4.503	1176.615	0.38%	99.80%
165.0	6.631	1.889	1178.504	0.16%	99.96%
170.0	0.805	0.441	1178.945	0.04%	100.00%
175.0	0.000	0.029	1178.974	0.00%	100.00%
180.0	0.000	0.000	1178.974	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	25.88	2.19%	2.19%
0-40	65.50	5.56%	5.56%
0-60	219.20	18.59%	18.59%
0-90	609.66	51.71%	51.71%
0-120	996.10	84.49%	84.49%
0-180	1178.97	100.00%	100.00%
60-90	390.46	33.12%	33.12%
90-120	386.43	32.78%	32.78%
90-130	468.60	39.75%	39.75%
90-150	554.31	47.02%	47.02%
90-180	569.31	48.29%	48.29%
0-114.91	943.18	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	0.56
10-20	5.94
20-30	19.38
30-40	39.62
40-50	63.94
50-60	89.76
60-70	113.83
70-80	132.90
80-90	143.74
90-100	143.54
100-110	132.46
110-120	110.43
120-130	82.16
130-140	54.85
140-150	30.87
150-160	12.64
160-170	2.33
170-180	0.03



C60(Max): ———

C0/C180: ———

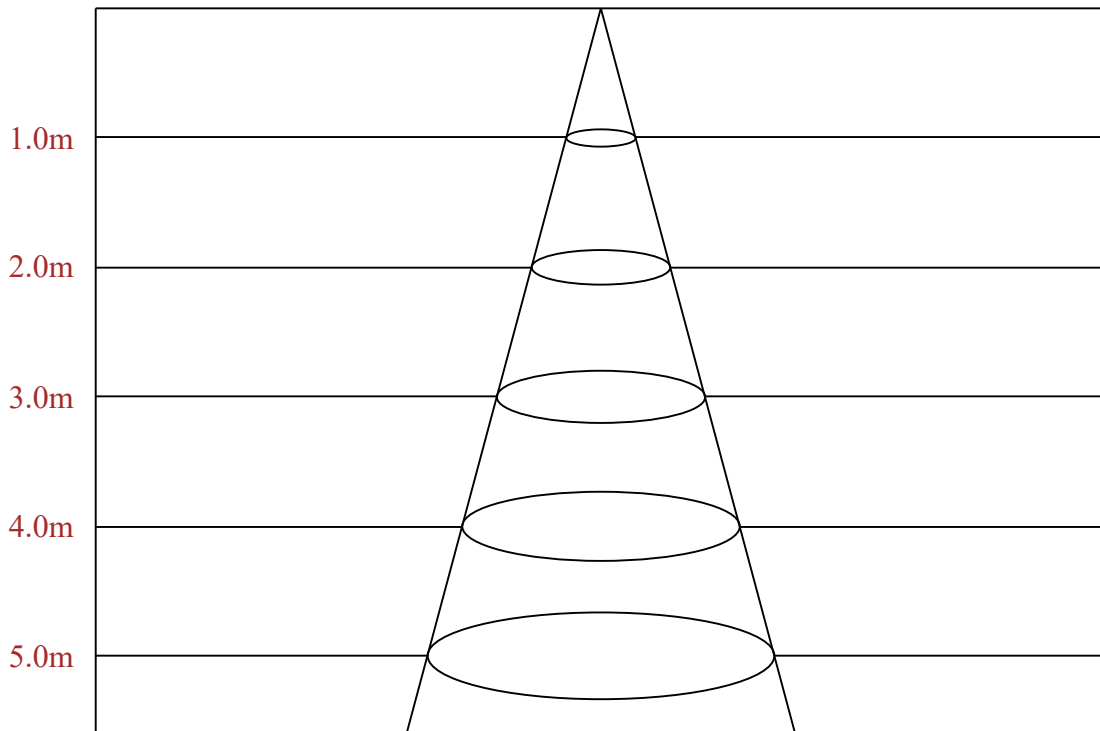
C90/C270: ———

Field angle(10%Imax):C0/180Left:262.0 Right:82.0

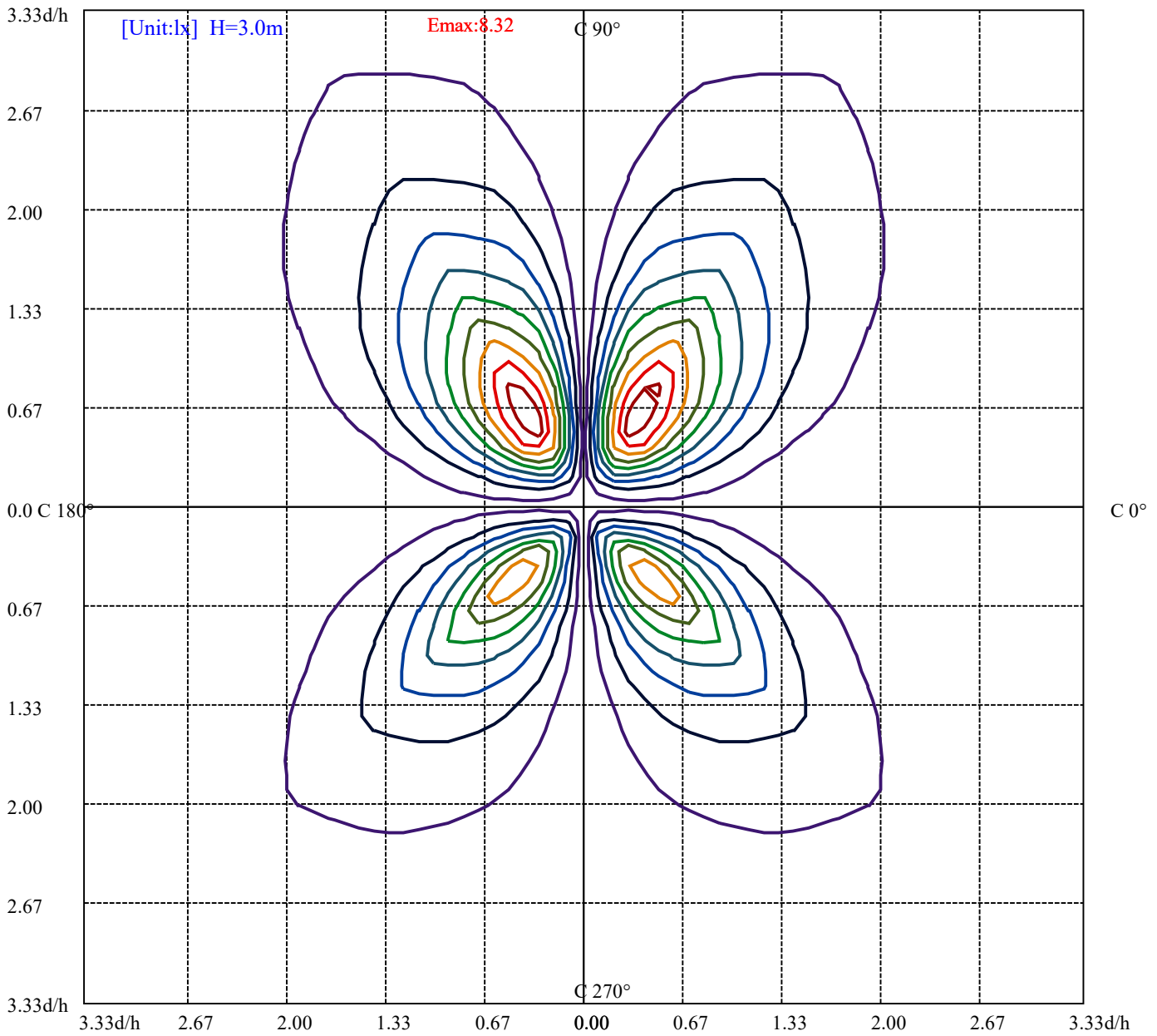
:C90/270Left:257.0 Right:52.0

Beam Angle(50%Imax):C0/180Left:240.0 Right:60.0

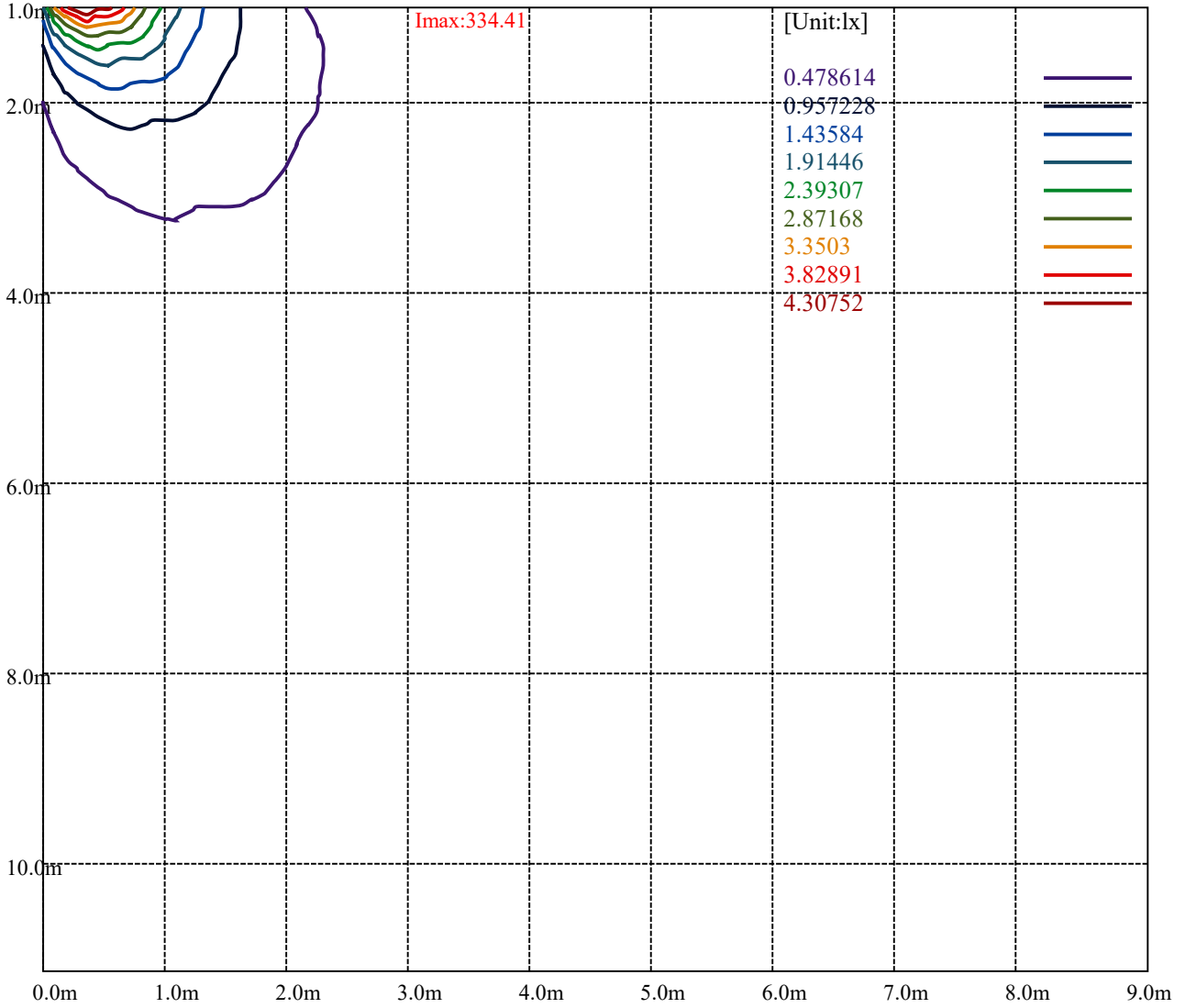
:C90/270Left:200.0 Right:40.0



Max , Ave      Beam angle of C60 plane 336.00



- (10%Emax) 0.8320222
- (20%Emax) 1.664044
- (30%Emax) 2.496067
- (40%Emax) 3.328089
- (50%Emax) 4.160111
- (60%Emax) 4.992133
- (70%Emax) 5.824156
- (80%Emax) 6.656178
- (90%Emax) 7.4882



Luminance Table

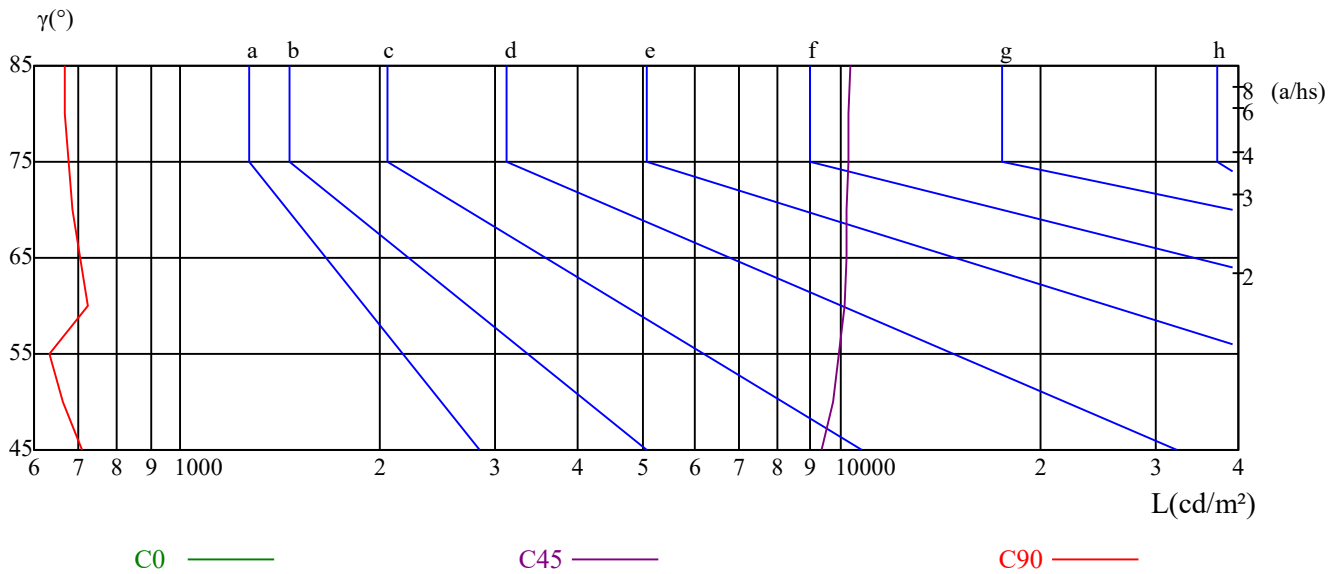
$\gamma$	45	50	55	60	65	70	75	80	85
C0	484	478	450	454	436	422	413	407	404
C45	9348	9746	9950	10129	10195	10213	10283	10268	10308
C90	707	664	631	726	703	686	675	669	669

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
19592	8707	446795	31990	14218	779322	94999	42222	2385535

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	1.08	1.08	1.08	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.58	0.58	0.58	0.52
1	0.85	0.79	0.73	0.78	0.72	0.67	0.65	0.60	0.56	0.52	0.49	0.46	0.41	0.39	0.36	0.31
2	0.71	0.62	0.55	0.65	0.57	0.50	0.53	0.47	0.42	0.42	0.38	0.34	0.33	0.29	0.26	0.21
3	0.60	0.50	0.43	0.55	0.46	0.39	0.45	0.38	0.32	0.36	0.30	0.26	0.27	0.23	0.19	0.15
4	0.52	0.42	0.34	0.47	0.38	0.31	0.39	0.31	0.26	0.30	0.25	0.20	0.23	0.19	0.15	0.11
5	0.45	0.36	0.28	0.41	0.33	0.26	0.34	0.27	0.21	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.40	0.31	0.24	0.37	0.28	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.13	0.10	0.07
7	0.36	0.27	0.20	0.33	0.24	0.18	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.08	0.05
8	0.32	0.23	0.17	0.29	0.21	0.16	0.24	0.17	0.13	0.19	0.14	0.10	0.14	0.10	0.07	0.04
9	0.29	0.21	0.15	0.27	0.19	0.14	0.22	0.16	0.11	0.17	0.12	0.09	0.13	0.09	0.06	0.04
10	0.26	0.18	0.13	0.24	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.07	0.12	0.08	0.05	0.03

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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	1.84	2.76	3.68	4.60	5.52	5.52	6.44	7.36	7.36
15.0	1.84	3.68	6.44	11.04	15.64	22.08	27.60	32.20	35.88
30.0	1.84	3.68	10.12	20.24	33.12	46.92	60.72	71.76	82.80
45.0	1.84	3.68	12.88	30.36	50.60	70.84	93.84	114.08	134.32
60.0	1.84	2.76	11.04	31.28	57.04	84.64	114.08	142.60	173.87
75.0	1.84	2.76	3.68	7.36	13.80	20.24	28.52	35.88	44.16
90.0	1.84	2.76	3.68	4.60	4.60	4.60	4.60	4.60	4.60
105.0	1.84	2.76	7.36	25.76	50.60	78.20	109.48	139.84	173.87
120.0	1.84	2.76	12.88	30.36	53.36	78.20	104.88	132.48	158.23
135.0	1.84	3.68	11.04	24.84	40.48	58.88	90.16	95.68	111.32
150.0	1.84	3.68	7.36	14.72	23.00	33.12	42.32	51.52	59.80
165.0	1.84	2.76	4.60	6.44	8.28	10.12	12.88	15.64	17.48
180.0	1.84	3.68	4.60	5.52	6.44	6.44	7.36	7.36	7.36
195.0	1.84	4.60	9.20	14.72	19.32	24.84	29.44	33.12	36.80
210.0	1.84	6.44	15.64	27.60	40.48	52.44	64.40	74.52	82.80
225.0	1.84	7.36	21.16	39.56	57.96	78.20	94.76	113.16	132.48
240.0	1.84	3.68	20.24	40.48	50.60	59.80	68.08	76.36	83.72
255.0	1.84	0.92	2.76	6.44	9.20	11.96	13.80	16.56	19.32
270.0	1.84	0.92	0.92	0.92	1.84	1.84	1.84	1.84	1.84
285.0	1.84	1.84	12.88	29.44	38.64	47.84	57.04	66.24	68.08
300.0	1.84	5.52	21.16	41.40	45.08	64.40	76.36	88.32	100.28
315.0	1.84	7.36	19.32	34.96	51.52	70.84	87.40	104.88	119.60
330.0	1.84	5.52	12.88	22.08	32.20	42.32	51.52	59.80	66.24
345.0	1.84	3.68	6.44	10.12	12.88	15.64	18.40	21.16	23.00
360.0	1.84	2.76	3.68	4.60	5.52	5.52	6.44	7.36	7.36
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.36	7.36	7.36	8.28	8.28	8.28	8.28	8.28	8.28
15.0	39.56	42.32	44.16	46.00	47.84	48.76	49.68	50.60	50.60
30.0	90.16	97.52	102.12	106.72	109.48	112.24	114.08	115.00	115.92
45.0	153.63	172.03	186.75	200.55	210.67	218.03	224.47	227.23	229.07
60.0	202.39	230.91	258.51	283.35	305.43	322.91	337.63	346.83	351.43
75.0	52.44	61.64	69.92	78.20	85.56	91.08	96.60	99.36	101.20
90.0	4.60	4.60	4.60	5.52	5.52	5.52	5.52	5.52	5.52
105.0	206.99	241.03	272.31	298.99	326.59	347.75	367.07	379.03	385.47
120.0	183.07	207.91	231.83	252.99	272.31	287.95	301.75	310.03	315.55
135.0	127.88	143.52	155.47	165.59	172.95	178.47	183.99	186.75	189.51
150.0	67.16	76.36	78.20	80.96	83.72	86.48	88.32	90.16	91.08
165.0	19.32	21.16	22.08	23.92	24.84	25.76	26.68	26.68	27.60
180.0	7.36	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28
195.0	39.56	42.32	44.16	46.00	47.84	48.76	49.68	50.60	51.52
210.0	89.24	94.76	100.28	103.96	106.72	110.40	113.16	115.00	115.92
225.0	149.04	162.83	175.71	187.67	196.87	205.15	212.51	218.03	220.79
240.0	88.32	92.00	93.84	98.44	103.96	115.00	126.96	139.84	149.96
255.0	21.16	24.84	27.60	32.20	34.96	36.80	37.72	35.88	37.72
270.0	1.84	1.84	1.84	1.84	1.84	1.84	1.84	2.76	1.84
285.0	84.64	93.84	102.12	119.60	134.32	146.28	158.23	169.27	179.39
300.0	112.24	126.04	146.28	162.83	179.39	194.11	206.07	218.03	224.47
315.0	134.32	147.20	158.23	167.43	174.79	181.23	185.83	189.51	192.27
330.0	72.68	77.28	80.96	83.72	86.48	88.32	90.16	91.08	91.08
345.0	23.92	25.76	26.68	27.60	28.52	28.52	28.52	29.44	29.44
360.0	7.36	7.36	7.36	8.28	8.28	8.28	8.28	8.28	8.28

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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	8.28	8.28	8.28	7.36	7.36	7.36	7.36	6.44	6.44
15.0	50.60	50.60	49.68	49.68	47.84	46.92	44.16	42.32	38.64
30.0	115.92	115.00	114.08	112.24	110.40	106.72	101.20	94.76	88.32
45.0	229.99	229.07	226.31	220.79	216.19	204.23	191.35	173.87	154.55
60.0	352.35	349.59	343.15	332.11	318.31	294.39	267.71	239.19	208.83
75.0	101.20	101.20	99.36	95.68	92.00	85.56	79.12	71.76	63.48
90.0	5.52	5.52	5.52	5.52	5.52	4.60	4.60	4.60	4.60
105.0	388.23	384.55	378.11	364.31	347.75	321.07	289.79	257.59	225.39
120.0	316.47	313.71	309.11	299.91	287.95	267.71	245.63	220.79	193.19
135.0	191.35	191.35	189.51	185.83	181.23	172.03	160.99	148.12	133.40
150.0	91.08	91.08	90.16	89.24	87.40	83.72	80.04	75.44	69.92
165.0	27.60	27.60	27.60	27.60	26.68	25.76	24.84	23.00	21.16
180.0	8.28	7.36	7.36	7.36	7.36	7.36	6.44	6.44	5.52
195.0	51.52	50.60	50.60	48.76	47.84	45.08	42.32	38.64	35.88
210.0	115.92	115.00	114.08	111.32	107.64	103.04	96.60	89.24	81.88
225.0	222.63	221.71	218.95	213.43	204.23	191.35	186.75	159.15	140.76
240.0	151.79	150.88	153.63	142.60	126.96	109.48	90.16	75.44	67.16
255.0	35.88	33.12	28.52	25.76	21.16	19.32	13.80	9.20	6.44
270.0	2.76	1.84	1.84	1.84	1.84	1.84	0.92	0.92	0.92
285.0	180.31	178.47	171.11	158.23	140.76	120.52	100.28	81.88	70.84
300.0	226.31	226.31	221.71	213.43	198.71	180.31	159.15	138.00	116.84
315.0	192.27	191.35	188.59	183.99	177.55	167.43	154.55	140.76	125.12
330.0	91.08	91.08	90.16	88.32	86.48	82.80	78.20	72.68	66.24
345.0	28.52	28.52	28.52	27.60	26.68	24.84	23.00	21.16	19.32
360.0	8.28	8.28	8.28	7.36	7.36	7.36	7.36	6.44	6.44
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	6.44	5.52	5.52	4.60	3.68	2.76	2.76	1.84	0.00
15.0	35.88	32.20	27.60	23.00	17.48	11.96	7.36	2.76	0.00
30.0	80.04	70.84	60.72	49.68	36.80	24.84	12.88	3.68	0.00
45.0	135.24	114.08	94.76	74.52	55.20	34.96	17.48	1.84	0.00
60.0	179.39	149.96	121.44	93.84	68.08	41.40	19.32	0.92	0.00
75.0	55.20	46.00	37.72	29.44	21.16	12.88	5.52	0.00	0.00
90.0	3.68	3.68	2.76	2.76	1.84	0.92	0.00	0.00	0.00
105.0	190.43	156.39	124.20	93.84	65.32	38.64	15.64	0.00	0.00
120.0	167.43	138.92	113.16	87.40	60.72	35.88	14.72	0.92	0.00
135.0	117.76	101.20	83.72	66.24	47.84	31.28	15.64	2.76	0.00
150.0	63.48	56.12	47.84	37.72	28.52	18.40	10.12	1.84	0.00
165.0	20.24	18.40	15.64	12.88	10.12	7.36	4.60	1.84	0.00
180.0	5.52	4.60	3.68	3.68	2.76	1.84	1.84	0.92	0.00
195.0	32.20	27.60	23.00	17.48	12.88	11.04	2.76	0.00	0.00
210.0	72.68	70.84	51.52	38.64	25.76	14.72	4.60	0.00	0.00
225.0	121.44	100.28	79.12	58.88	38.64	19.32	3.68	0.00	0.00
240.0	57.96	49.68	40.48	30.36	19.32	11.04	1.84	0.00	0.00
255.0	4.60	2.76	1.84	0.92	0.00	0.00	0.00	0.00	0.00
270.0	0.92	0.92	0.92	0.00	0.00	0.00	0.00	0.00	0.00
285.0	60.72	51.52	42.32	32.20	23.00	15.64	1.84	0.00	0.00
300.0	99.36	82.80	67.16	52.44	36.80	22.08	4.60	0.00	0.00
315.0	109.48	90.16	72.68	53.36	35.88	18.40	5.52	0.00	0.00
330.0	58.88	49.68	40.48	31.28	21.16	11.96	4.60	0.00	0.00
345.0	17.48	14.72	11.96	9.20	6.44	3.68	1.84	0.00	0.00
360.0	6.44	5.52	5.52	4.60	3.68	2.76	2.76	1.84	0.00

Intensity data(cd)

C/γ(°)	180.0
0.0	0.00
15.0	0.00
30.0	0.00
45.0	0.00
60.0	0.00
75.0	0.00
90.0	0.00
105.0	0.00
120.0	0.00
135.0	0.00
150.0	0.00
165.0	0.00
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	0.00