
AFX

Client:

LumCAT: VRNV3007LAJUDSN

Luminaire: LED 灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.020

LampCAT:

Current(A): 0.322

Lamp flux(lm): 3346.2

Power (W): 38.290

Number of Lamps: 1

PF: 0.991

Length(mm): 750

Width(mm): 140

Phm Type: C

Height(mm): 140

Photometric Results

Lumens(lm): 3346.17, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 87.39

Central intensity(cd): 394.610, Maximum intensity(cd): 395.059

Angle of maximum intensity: C=45.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.31 C90_270=1.33

Maximum s/h(1/4): C0_180=1.49 C90_270=1.51

Up flux rate of lamp(%): 48.20%

Down flux rate of lamp(%): 51.80%

Up flux rate of LUM(%): 48.20%

Down flux rate of LUM(%): 51.80%

CIE Type : General diffuse lighting

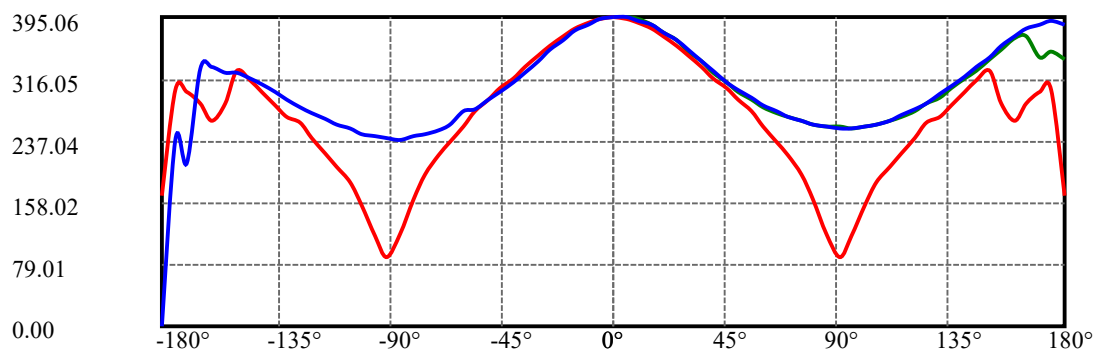
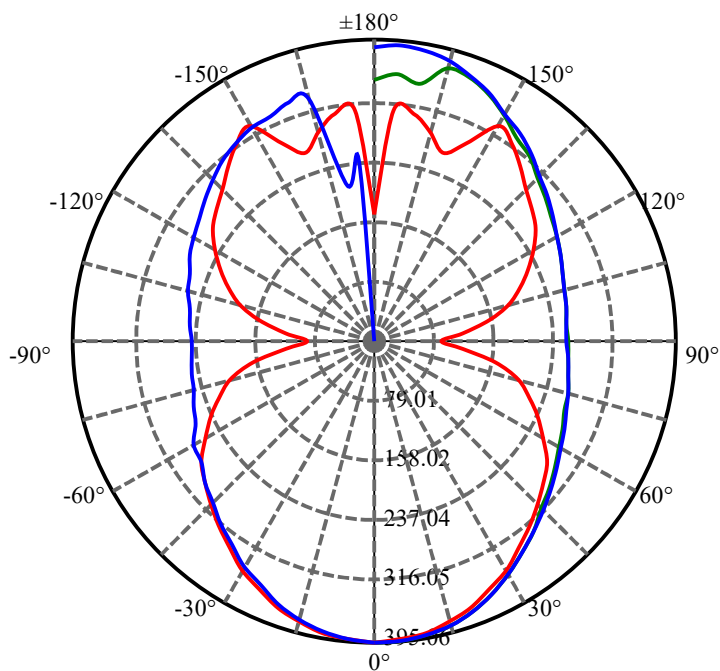
Output flux ratio in π solid angle : 30.033%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	394.610	0.000	0	0.00%	0.00%
5.0	393.225	9.418	9.418	0.28%	0.28%
10.0	388.660	27.970	37.389	0.84%	1.12%
15.0	381.325	45.675	83.064	1.36%	2.48%
20.0	371.851	62.072	145.136	1.86%	4.34%
25.0	359.767	76.733	221.869	2.29%	6.63%
30.0	346.219	89.343	311.212	2.67%	9.30%
35.0	331.698	99.828	411.04	2.98%	12.28%
40.0	317.887	108.378	519.419	3.24%	15.52%
45.0	304.040	115.155	634.574	3.44%	18.96%
50.0	291.167	120.270	754.844	3.59%	22.56%
55.0	279.079	123.991	878.834	3.71%	26.26%
60.0	266.549	126.120	1004.955	3.77%	30.03%
65.0	253.792	126.496	1131.451	3.78%	33.81%
70.0	242.415	125.643	1257.094	3.75%	37.57%
75.0	231.797	123.951	1381.045	3.70%	41.27%
80.0	220.360	120.985	1502.03	3.62%	44.89%
85.0	210.395	117.047	1619.076	3.50%	48.39%
90.0	206.448	114.135	1733.211	3.41%	51.80%
95.0	210.955	114.288	1847.5	3.42%	55.21%
100.0	218.824	116.781	1964.281	3.49%	58.70%
105.0	227.414	119.401	2083.682	3.57%	62.27%
110.0	235.601	121.025	2204.707	3.62%	65.89%
115.0	244.538	121.574	2326.281	3.63%	69.52%
120.0	252.912	120.931	2447.212	3.61%	73.13%
125.0	261.021	118.794	2566.007	3.55%	76.68%
130.0	270.077	115.478	2681.485	3.45%	80.14%
135.0	281.236	111.401	2792.886	3.33%	83.47%
140.0	290.443	105.851	2898.737	3.16%	86.63%
145.0	298.778	98.307	2997.044	2.94%	89.57%
150.0	306.773	89.172	3086.216	2.66%	92.23%
155.0	306.527	77.614	3163.829	2.32%	94.55%
160.0	307.746	64.426	3228.255	1.93%	96.48%
165.0	312.675	51.131	3279.387	1.53%	98.00%
170.0	318.325	37.431	3316.817	1.12%	99.12%
175.0	333.042	23.301	3340.119	0.70%	99.82%
180.0	172.774	6.047	3346.166	0.18%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	311.21	9.30%	9.30%
0-40	519.42	15.52%	15.52%
0-60	1004.95	30.03%	30.03%
0-90	1733.21	51.80%	51.80%
0-120	2447.21	73.13%	73.13%
0-180	3346.17	100.00%	100.00%
60-90	728.26	21.76%	21.76%
90-120	714.00	21.34%	21.34%
90-130	948.27	28.34%	28.34%
90-150	1353.00	40.43%	40.43%
90-180	1606.91	48.02%	48.02%
0-129.80	2676.93	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	37.39
10-20	107.75
20-30	166.08
30-40	208.21
40-50	235.43
50-60	250.11
60-70	252.14
70-80	244.94
80-90	231.18
90-100	231.07
100-110	240.43
110-120	242.51
120-130	234.27
130-140	217.25
140-150	187.48
150-160	142.04
160-170	88.56
170-180	23.30



C45(Max): —————

C0/C180: —————

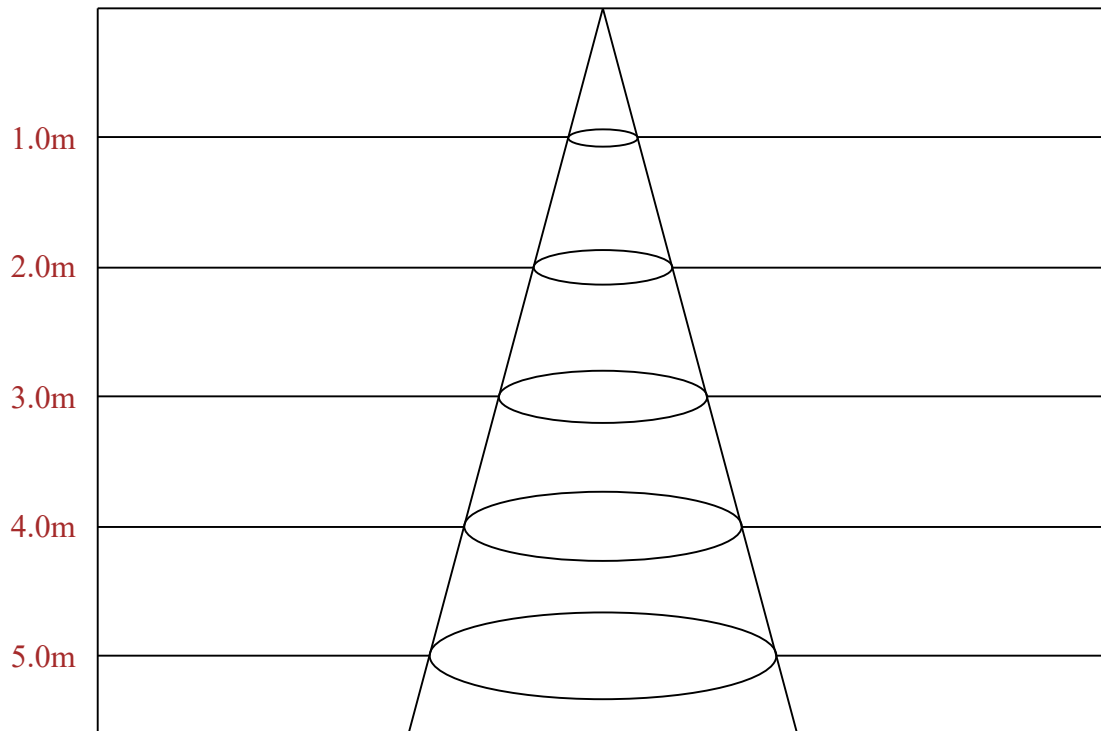
C90/C270: —————

Field angle(10%Imax):C0/180Left:0.0 Right:0.0

:C90/270Left:0.0 Right:0.0

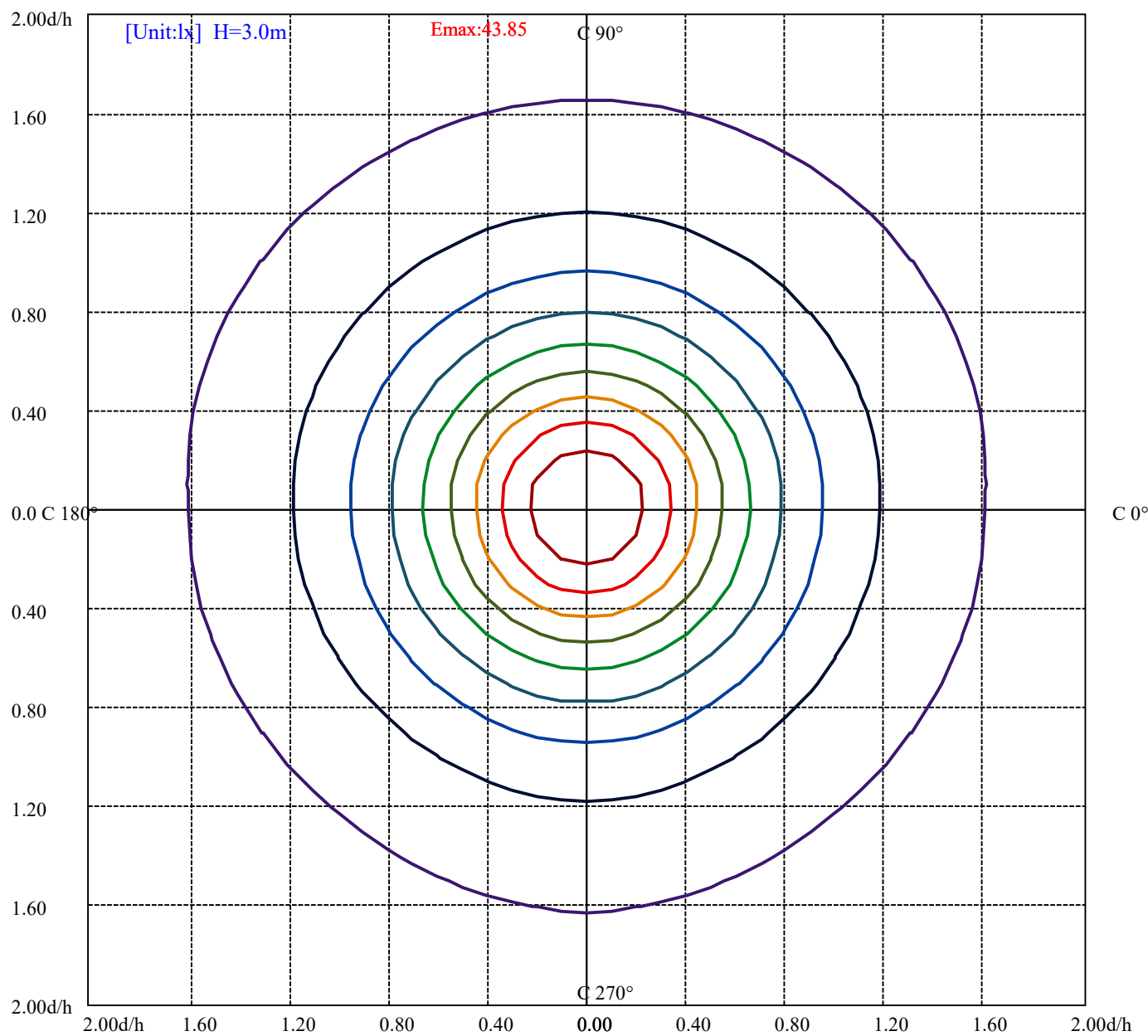
Beam Angle(50%Imax):C0/180Left:178.9 Right:178.9

:C90/270Left:0.0 Right:0.0

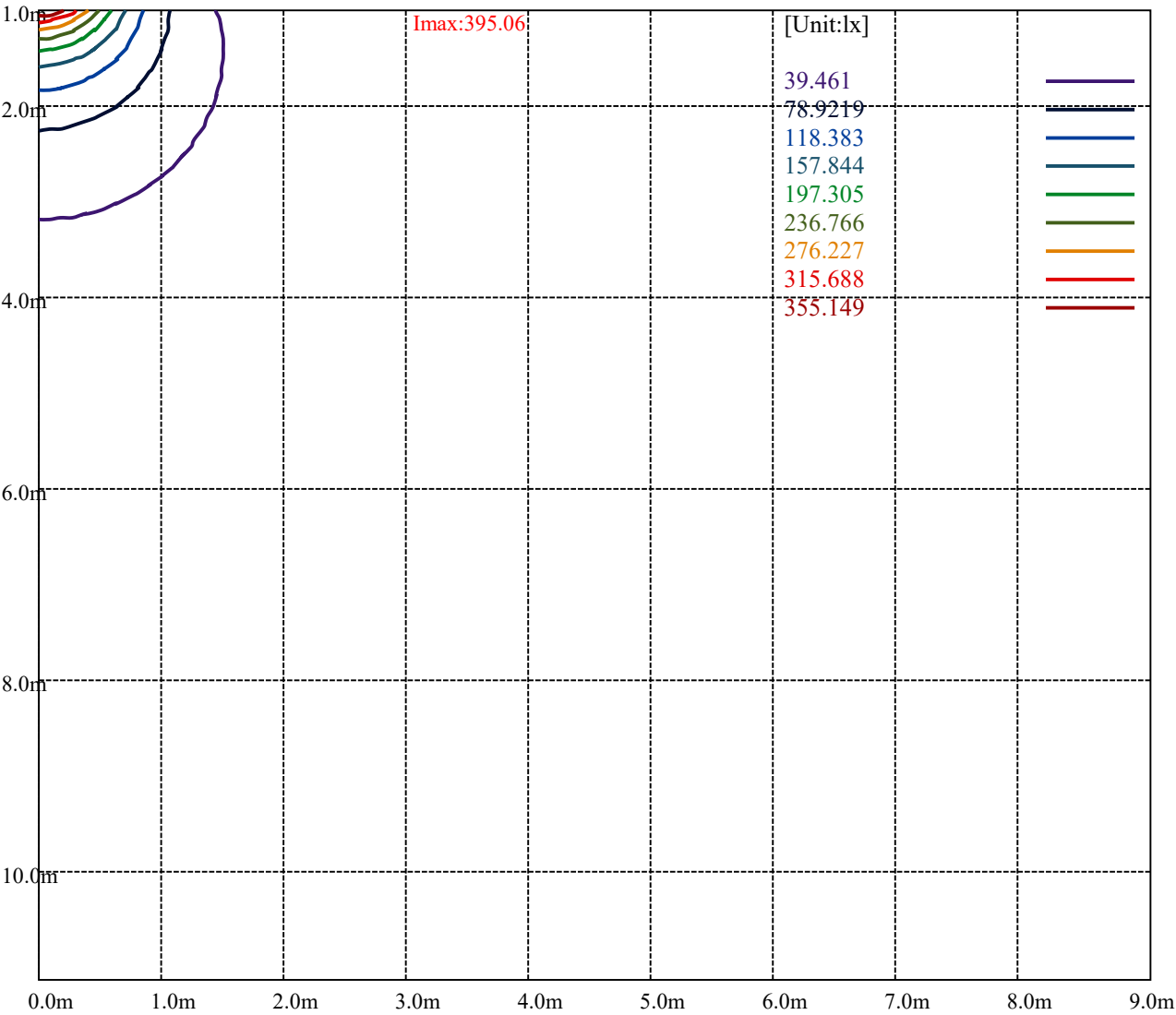


Max , Ave

Beam angle of C45 plane 258.00



(10%Emax) 4.384555	—
(20%Emax) 8.7691	—
(30%Emax) 13.15367	—
(40%Emax) 17.53822	—
(50%Emax) 21.92278	—
(60%Emax) 26.30733	—
(70%Emax) 30.69189	—
(80%Emax) 35.07644	—
(90%Emax) 39.461	—



Luminance Table

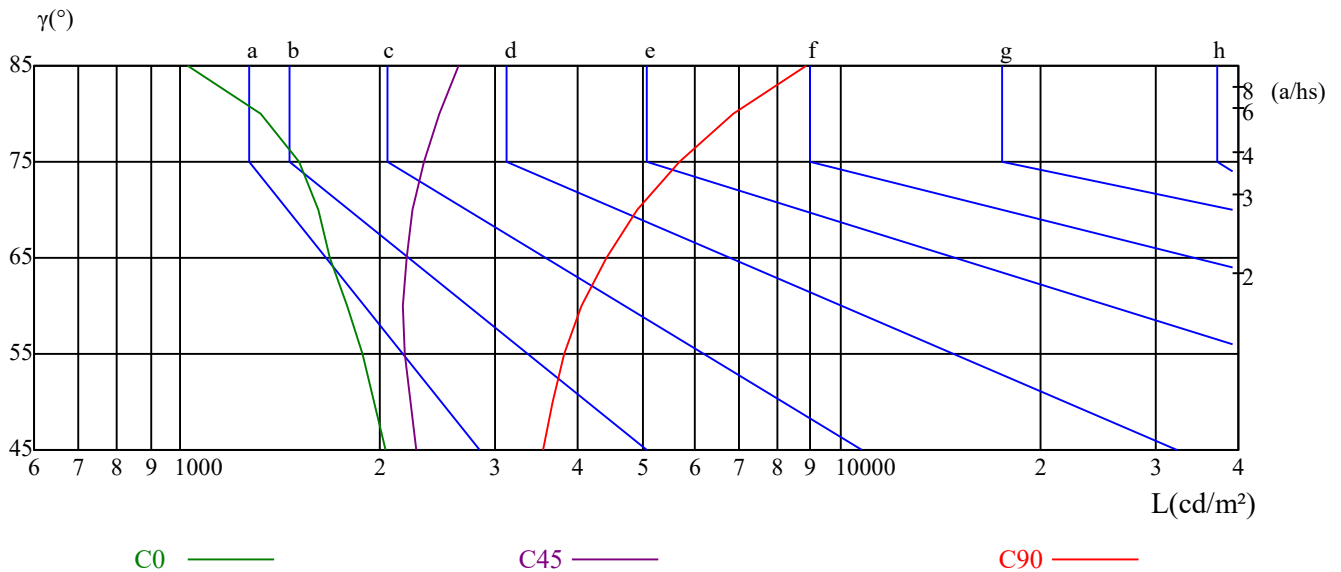
γ	45	50	55	60	65	70	75	80	85
C0	2041	1959	1887	1785	1685	1618	1510	1322	1027
C45	2280	2223	2189	2176	2195	2244	2332	2460	2642
C90	3550	3650	3818	4050	4412	4914	5693	6873	8871

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5298	5996	5709	7146	9344	8552	12771	26962	24313

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 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	0.89	0.84	0.80	0.82	0.78	0.74	0.69	0.66	0.63	0.57	0.55	0.52	0.46	0.44	0.42	0.37
2	0.76	0.69	0.63	0.70	0.64	0.58	0.59	0.54	0.50	0.48	0.45	0.41	0.39	0.36	0.33	0.29
3	0.66	0.58	0.51	0.61	0.53	0.47	0.51	0.45	0.40	0.42	0.37	0.34	0.33	0.30	0.27	0.23
4	0.58	0.49	0.42	0.53	0.45	0.39	0.45	0.39	0.34	0.37	0.32	0.28	0.29	0.26	0.23	0.19
5	0.51	0.42	0.36	0.47	0.39	0.33	0.40	0.33	0.29	0.33	0.28	0.24	0.26	0.22	0.19	0.16
6	0.46	0.37	0.31	0.42	0.34	0.29	0.36	0.29	0.25	0.29	0.24	0.21	0.24	0.20	0.17	0.14
7	0.41	0.33	0.27	0.38	0.30	0.25	0.32	0.26	0.21	0.27	0.22	0.18	0.22	0.18	0.15	0.12
8	0.37	0.29	0.23	0.35	0.27	0.22	0.29	0.23	0.19	0.24	0.19	0.16	0.20	0.16	0.13	0.11
9	0.34	0.26	0.21	0.31	0.24	0.19	0.27	0.21	0.17	0.22	0.18	0.14	0.18	0.14	0.12	0.09
10	0.31	0.23	0.18	0.29	0.22	0.17	0.25	0.19	0.15	0.21	0.16	0.13	0.17	0.13	0.11	0.08

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	394.61	393.72	390.17	383.94	375.95	364.39	351.95	337.73	322.62
15.0	394.61	394.61	391.05	384.81	376.79	366.11	352.74	338.49	323.35
30.0	394.61	395.50	391.93	385.68	377.65	366.93	353.54	339.26	325.87
45.0	394.61	395.51	392.81	386.52	377.53	366.74	354.16	339.78	326.29
60.0	394.61	394.61	391.91	385.62	377.53	365.85	354.16	339.78	326.29
75.0	394.61	394.61	391.01	385.62	377.53	365.85	353.26	339.78	325.40
90.0	394.61	394.61	391.01	384.72	376.63	365.85	352.36	338.88	325.40
105.0	394.61	394.61	391.02	384.74	375.78	365.01	352.46	339.01	324.66
120.0	394.61	393.71	390.14	382.98	374.92	363.29	350.76	336.45	322.13
135.0	394.61	394.61	391.01	383.80	375.69	363.98	349.56	336.05	321.63
150.0	394.61	393.70	390.07	383.72	366.49	363.77	350.16	334.74	322.04
165.0	394.61	393.70	389.14	382.76	373.65	361.80	349.04	335.37	318.97
180.0	394.61	391.05	384.83	376.83	366.17	353.73	340.40	324.40	310.18
195.0	394.61	391.05	385.70	377.69	367.00	353.63	339.38	325.13	311.77
210.0	394.61	391.93	386.57	377.65	366.93	355.33	340.15	325.87	310.69
225.0	394.61	392.81	386.52	376.63	367.64	354.16	339.78	324.50	309.22
240.0	394.61	391.91	385.62	376.63	365.85	352.36	338.88	322.70	308.32
255.0	394.61	391.91	386.52	378.43	367.64	354.16	339.78	325.40	311.01
270.0	394.61	391.91	385.62	377.53	366.74	353.26	339.78	324.50	312.81
285.0	394.61	392.82	386.54	378.47	367.70	355.15	340.80	327.35	323.76
300.0	394.61	391.93	386.56	378.50	374.92	354.34	340.03	324.81	309.60
315.0	394.61	391.91	387.40	379.29	368.48	355.87	340.55	325.24	309.92
330.0	394.61	391.89	387.35	379.19	369.21	355.60	341.99	327.48	312.97
345.0	394.61	392.79	387.32	380.03	370.00	357.24	343.57	328.08	314.41
360.0	394.61	393.72	390.17	383.94	375.95	364.39	351.95	337.73	322.62
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	309.29	295.07	283.51	264.85	242.63	223.97	205.30	175.09	136.87
15.0	309.10	295.73	284.15	272.57	254.76	238.73	225.36	206.66	187.06
30.0	312.47	300.87	290.15	279.44	271.41	264.26	258.01	252.66	248.19
45.0	313.71	302.02	292.14	282.25	275.06	267.87	263.37	259.78	257.08
60.0	313.71	302.02	291.24	282.25	275.06	268.77	264.27	260.68	259.78
75.0	312.81	302.02	292.14	283.15	275.06	268.77	263.37	258.88	256.18
90.0	312.81	301.13	291.24	281.35	274.16	266.97	262.47	257.98	254.38
105.0	312.10	300.44	290.58	280.71	272.64	266.36	261.88	257.39	254.70
120.0	310.50	297.97	288.13	279.18	272.02	265.76	261.28	257.70	255.91
135.0	309.02	298.21	287.40	278.39	270.28	264.87	260.37	256.77	254.96
150.0	308.43	297.54	286.66	276.68	268.52	262.17	256.72	253.09	249.47
165.0	307.12	293.45	282.51	269.76	254.26	238.77	225.10	207.79	191.38
180.0	296.85	284.40	268.41	247.08	227.52	211.52	183.08	146.65	96.87
195.0	296.63	283.26	272.57	252.09	232.49	215.57	195.08	163.01	135.40
210.0	296.40	281.23	266.94	252.66	237.48	222.30	208.91	197.30	191.95
225.0	293.93	279.55	263.37	248.09	232.81	217.53	202.25	191.46	189.66
240.0	294.83	280.45	266.07	251.69	238.20	226.52	215.73	208.54	204.95
255.0	298.43	284.95	273.26	261.57	251.69	242.70	235.51	232.81	227.42
270.0	300.23	288.54	276.86	274.16	257.98	250.79	245.40	241.80	239.10
285.0	300.44	287.89	275.33	263.67	253.81	245.73	237.66	232.28	229.59
300.0	295.29	280.97	267.55	254.12	241.60	229.07	219.23	211.17	207.60
315.0	296.41	281.09	265.78	250.46	235.14	218.93	203.61	191.90	188.30
330.0	297.54	283.03	267.61	254.00	238.58	223.16	209.55	197.76	190.50
345.0	298.92	286.16	274.31	257.00	237.86	216.90	199.58	169.51	142.17
360.0	309.29	295.07	283.51	264.85	242.63	223.97	205.30	175.09	136.87

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	86.21	95.99	139.54	172.42	194.64	211.52	231.08	254.19	261.30
15.0	174.59	174.59	188.84	207.55	224.47	239.62	257.43	271.68	282.37
30.0	244.62	243.73	247.30	252.66	258.01	264.26	271.41	281.23	291.05
45.0	255.28	254.38	256.18	259.78	264.27	269.66	276.86	284.95	293.93
60.0	259.78	259.78	261.57	262.47	266.07	270.56	277.75	285.84	295.73
75.0	255.28	256.18	257.98	260.68	264.27	270.56	277.75	286.74	296.63
90.0	252.59	252.59	254.38	257.08	262.47	268.77	276.86	285.84	295.73
105.0	253.81	253.81	255.60	258.29	262.77	269.05	276.23	284.30	295.06
120.0	255.91	256.81	256.81	259.49	262.18	267.55	274.71	283.65	293.50
135.0	253.16	253.16	254.96	257.67	261.27	267.58	274.79	282.89	291.90
150.0	245.84	245.84	248.56	254.00	259.44	264.89	272.14	282.12	292.10
165.0	183.18	186.82	199.58	216.90	231.48	246.06	262.47	276.14	287.07
180.0	90.65	135.98	168.86	193.75	211.52	231.08	251.52	263.96	275.52
195.0	135.40	147.87	163.01	177.26	190.62	204.88	209.33	203.09	210.22
210.0	191.06	195.52	199.09	205.34	213.37	220.52	218.73	214.27	216.95
225.0	189.66	193.26	199.55	206.74	213.04	221.13	222.02	237.31	246.29
240.0	205.84	209.44	210.34	219.33	226.52	234.61	242.70	252.59	262.47
255.0	228.32	231.91	237.31	242.70	248.09	256.18	264.27	274.16	283.15
270.0	240.00	241.80	246.29	251.69	257.08	265.17	272.36	280.45	289.44
285.0	229.59	232.28	237.66	243.94	250.22	258.29	267.26	277.12	286.99
300.0	208.49	211.17	216.54	222.81	229.07	237.12	246.07	256.81	268.44
315.0	188.30	191.90	197.30	204.51	211.72	217.13	224.33	233.34	242.35
330.0	190.50	194.13	197.76	202.29	211.37	218.62	223.16	217.72	223.16
345.0	136.70	143.99	156.75	168.60	180.45	194.12	198.67	194.12	200.49
360.0	86.21	95.99	139.54	172.42	194.64	211.52	231.08	254.19	261.30
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	273.74	292.40	306.62	322.62	300.40	255.96	265.74	306.62	289.74
15.0	292.17	304.64	318.89	333.15	346.51	294.84	280.59	327.80	294.84
30.0	300.87	310.69	323.19	336.58	351.76	358.01	291.94	305.33	324.97
45.0	304.72	316.41	328.09	341.58	355.06	367.64	364.05	300.23	313.71
60.0	306.52	317.31	329.89	342.47	356.86	368.54	378.43	376.63	304.72
75.0	307.42	319.10	330.79	344.27	358.65	370.34	380.23	385.62	387.42
90.0	307.42	319.10	331.69	344.27	357.76	370.34	380.23	385.62	389.22
105.0	305.82	317.48	330.04	342.59	356.94	370.39	381.16	387.43	391.92
120.0	303.34	314.97	327.50	341.82	356.13	368.66	378.50	386.56	390.14
135.0	301.81	314.43	325.24	340.55	354.07	366.68	377.49	384.70	388.30
150.0	302.99	312.97	324.76	338.37	351.97	364.67	375.56	383.72	386.45
165.0	298.92	310.77	323.53	337.20	350.87	363.62	374.56	381.85	385.50
180.0	289.74	304.84	322.62	330.62	271.07	269.29	303.07	294.18	315.51
195.0	224.47	231.60	244.07	249.41	230.71	232.49	277.03	286.83	333.15
210.0	229.44	230.34	238.37	244.62	239.27	259.80	273.19	290.15	334.79
225.0	254.38	255.28	253.48	259.78	270.56	281.35	284.95	290.34	302.02
240.0	268.77	266.97	266.97	269.66	275.96	286.74	293.04	283.15	267.87
255.0	289.44	294.83	297.53	299.33	303.82	314.61	323.60	277.75	213.93
270.0	299.33	308.32	317.31	322.70	324.50	331.69	328.09	207.64	237.31
285.0	296.85	306.72	306.72	307.62	313.89	323.76	234.97	209.86	327.35
300.0	279.18	280.07	276.50	277.39	288.13	238.91	195.07	274.71	346.29
315.0	250.46	251.36	249.56	253.16	219.83	187.39	220.73	283.79	350.46
330.0	239.49	254.00	255.82	244.02	197.76	204.11	248.56	295.73	355.60
345.0	222.37	236.04	241.50	238.77	224.19	236.04	293.45	333.55	361.80
360.0	273.74	292.40	306.62	322.62	300.40	255.96	265.74	306.62	289.74

Intensity data(cd)

C/ γ (°)	180.0
0.0	334.17
15.0	321.57
30.0	297.30
45.0	297.53
60.0	284.05
75.0	302.92
90.0	384.72
105.0	386.54
120.0	384.77
135.0	384.70
150.0	384.63
165.0	383.67
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	334.17