
AFX

Client:

LumCAT: VRNV3007LAJUDSN

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP24070159

Voltage(V): 119.990

LampCAT:

Current(A): 0.323

Lamp flux(lm): 3091.4

Power (W): 38.320

Number of Lamps: 1

PF: 0.990

Length(mm): 750

Width(mm): 140

Phm Type: C

Height(mm): 140

Photometric Results

Lumens(lm): 3091.37, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 80.67

Central intensity(cd): 364.587, Maximum intensity(cd): 364.857

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

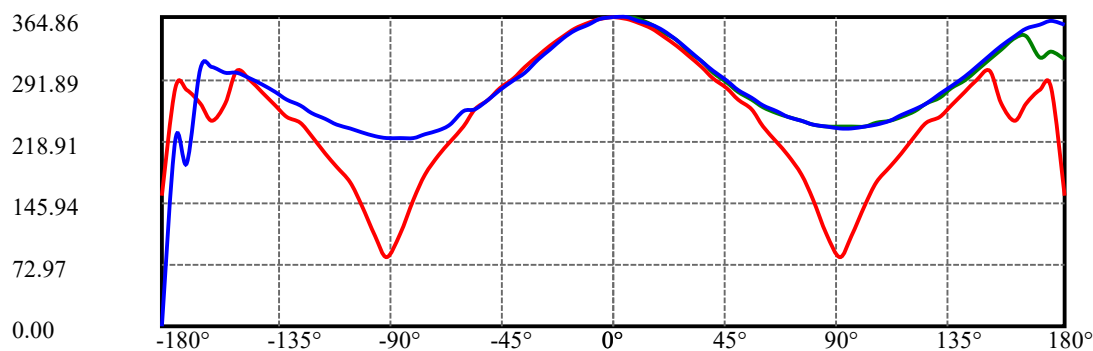
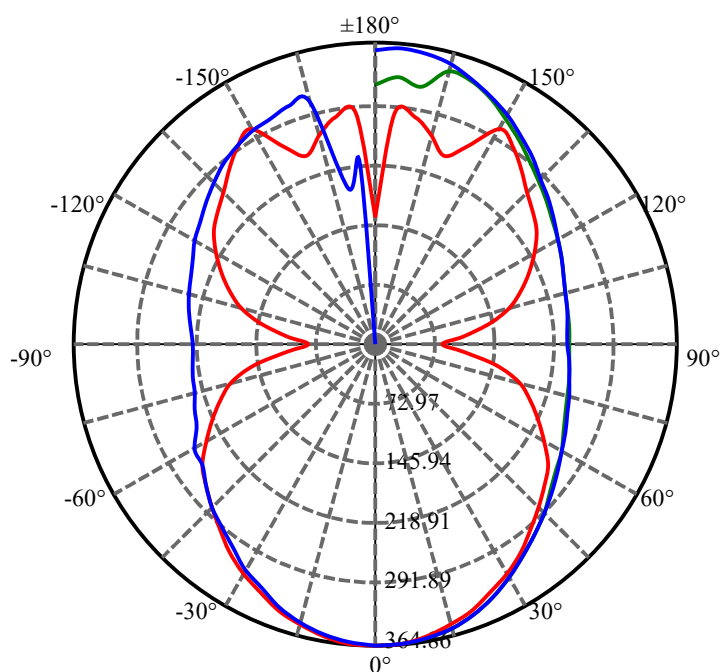
Output flux ratio in π solid angle : 30.032%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	364.587	0.000	0	0.00%	0.00%
5.0	363.249	8.701	8.701	0.28%	0.28%
10.0	359.038	25.838	34.54	0.84%	1.12%
15.0	352.306	42.196	76.736	1.36%	2.48%
20.0	343.503	57.344	134.08	1.85%	4.34%
25.0	332.451	70.895	204.975	2.29%	6.63%
30.0	319.838	82.548	287.523	2.67%	9.30%
35.0	306.373	92.214	379.737	2.98%	12.28%
40.0	293.711	100.119	479.857	3.24%	15.52%
45.0	280.894	106.393	586.249	3.44%	18.96%
50.0	269.004	111.115	697.364	3.59%	22.56%
55.0	257.774	114.539	811.903	3.71%	26.26%
60.0	246.287	116.512	928.415	3.77%	30.03%
65.0	234.412	116.859	1045.274	3.78%	33.81%
70.0	223.986	116.069	1161.344	3.75%	37.57%
75.0	214.141	114.519	1275.863	3.70%	41.27%
80.0	203.541	111.760	1387.623	3.62%	44.89%
85.0	194.405	108.131	1495.755	3.50%	48.38%
90.0	190.707	105.447	1601.201	3.41%	51.80%
95.0	194.880	105.577	1706.778	3.42%	55.21%
100.0	202.221	107.902	1814.68	3.49%	58.70%
105.0	210.125	110.332	1925.013	3.57%	62.27%
110.0	217.728	111.834	2036.847	3.62%	65.89%
115.0	225.863	112.320	2149.167	3.63%	69.52%
120.0	233.715	111.724	2260.891	3.61%	73.14%
125.0	241.167	109.768	2370.659	3.55%	76.69%
130.0	249.527	106.693	2477.352	3.45%	80.14%
135.0	259.821	102.921	2580.273	3.33%	83.47%
140.0	268.284	97.783	2678.056	3.16%	86.63%
145.0	276.014	90.812	2768.868	2.94%	89.57%
150.0	283.393	82.377	2851.245	2.66%	92.23%
155.0	283.158	71.697	2922.942	2.32%	94.55%
160.0	284.270	59.513	2982.455	1.93%	96.48%
165.0	288.802	47.229	3029.684	1.53%	98.00%
170.0	294.047	34.574	3064.258	1.12%	99.12%
175.0	307.700	21.526	3085.785	0.70%	99.82%
180.0	159.672	5.587	3091.372	0.18%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	287.52	9.30%	9.30%
0-40	479.86	15.52%	15.52%
0-60	928.42	30.03%	30.03%
0-90	1601.20	51.80%	51.80%
0-120	2260.89	73.14%	73.14%
0-180	3091.37	100.00%	100.00%
60-90	672.79	21.76%	21.76%
90-120	659.69	21.34%	21.34%
90-130	876.15	28.34%	28.34%
90-150	1250.04	40.44%	40.44%
90-180	1484.58	48.02%	48.02%
0-129.80	2473.10	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	34.54
10-20	99.54
20-30	153.44
30-40	192.33
40-50	217.51
50-60	231.05
60-70	232.93
70-80	226.28
80-90	213.58
90-100	213.48
100-110	222.17
110-120	224.04
120-130	216.46
130-140	200.70
140-150	173.19
150-160	131.21
160-170	81.80
170-180	21.53

C45(Max): —————C0/C180: —————C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

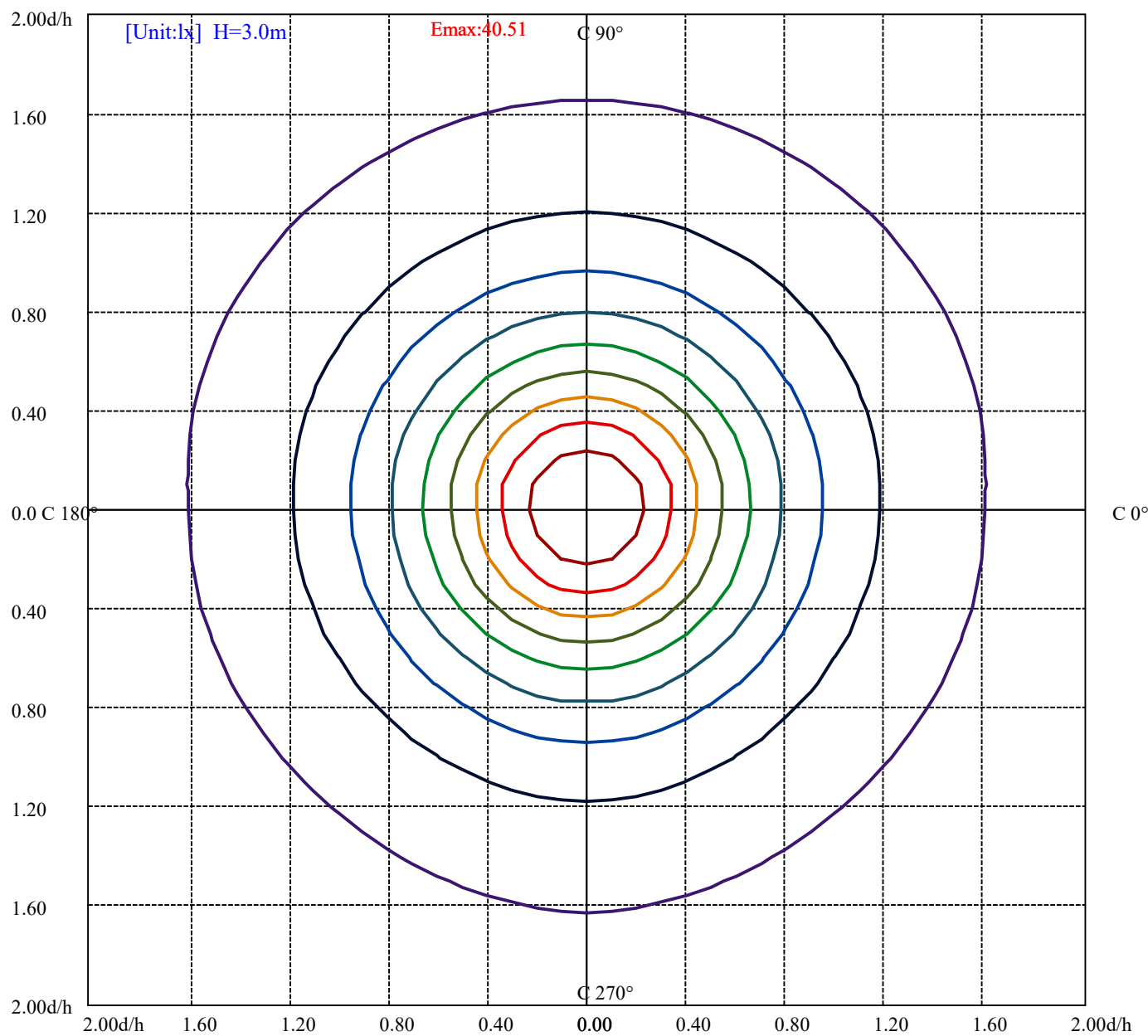
Beam Angle(50%Imax):C0/180Left:178.9 Right:178.9

:C90/270Left:0.0 Right:0.0

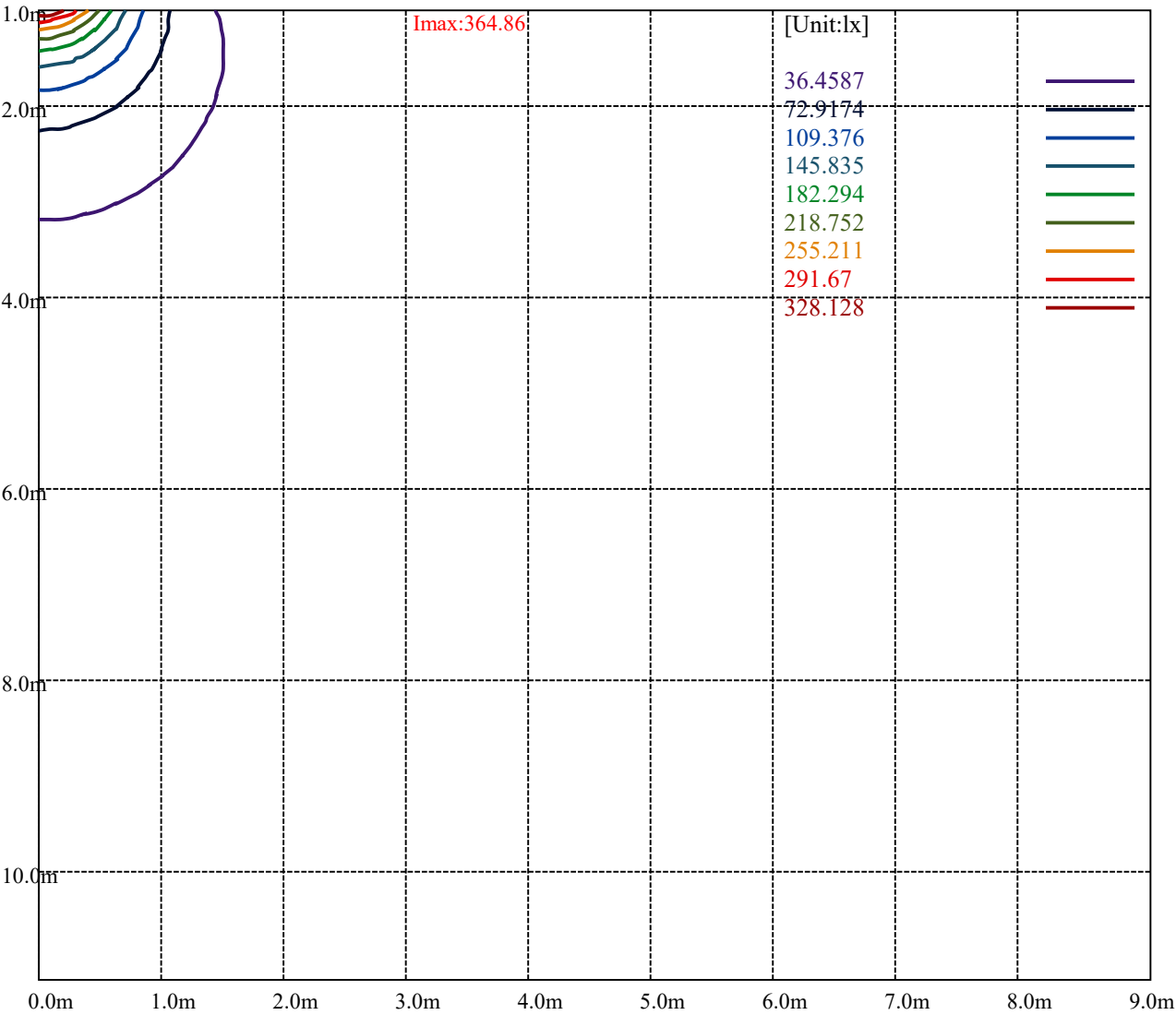


Max , Ave

Beam angle of C45 plane 258.06



(10%Emax) 4.050966	—
(20%Emax) 8.101933	—
(30%Emax) 12.15289	—
(40%Emax) 16.20389	—
(50%Emax) 20.25489	—
(60%Emax) 24.30578	—
(70%Emax) 28.35678	—
(80%Emax) 32.40778	—
(90%Emax) 36.45866	—



Luminance Limiting Curve(no luminous side)

Luminance Table

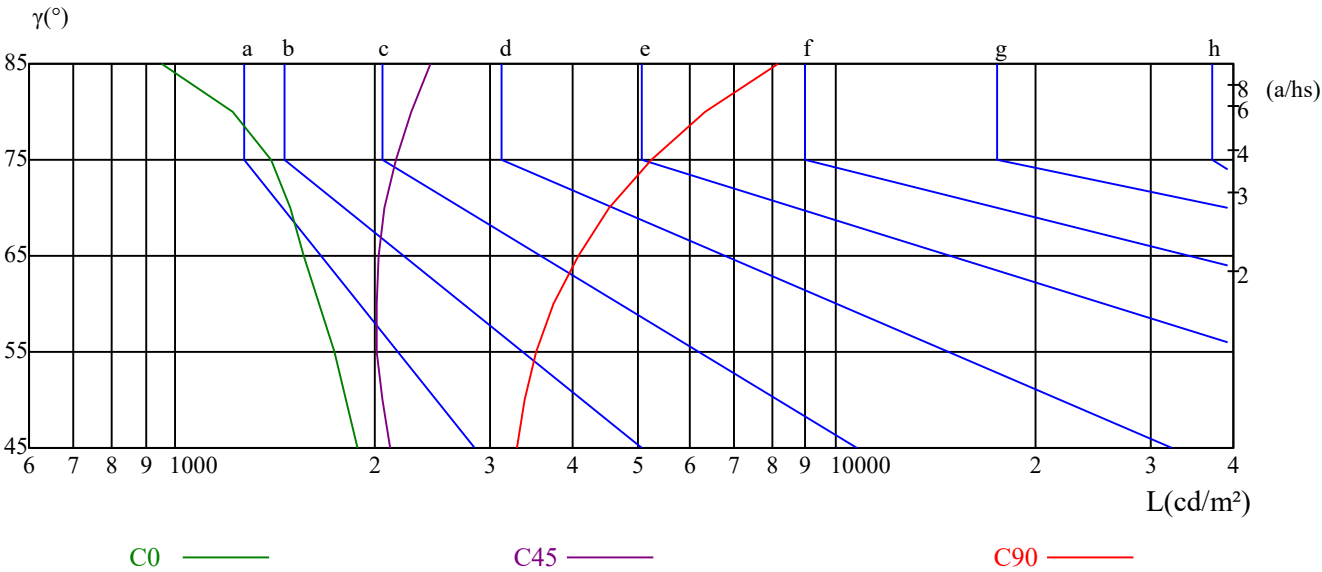
γ	45	50	55	60	65	70	75	80	85
C0	1887	1810	1744	1648	1558	1495	1396	1221	950
C45	2107	2055	2021	2012	2027	2072	2152	2272	2437
C90	3282	3376	3527	3747	4075	4548	5261	6355	8196

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4900	5544	5268	6606	8638	7896	11813	24921	22446

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	364.59	363.88	360.85	354.72	347.07	336.94	324.85	311.78	298.09
15.0	364.59	364.23	361.29	355.50	348.20	338.32	325.85	312.76	299.04
30.0	364.59	364.85	361.73	356.11	348.62	338.81	326.51	312.95	301.00
45.0	364.59	365.04	362.43	356.59	348.86	338.89	326.76	313.38	301.07
60.0	364.59	364.59	361.80	356.14	348.76	338.42	327.36	313.70	301.38
75.0	364.59	364.41	361.44	356.05	348.59	337.81	326.57	313.54	300.69
90.0	364.59	364.32	361.08	355.51	348.22	338.06	325.84	313.16	300.30
105.0	364.59	364.50	361.36	355.61	347.62	337.21	325.90	313.07	299.96
120.0	364.59	363.69	360.56	354.29	346.68	335.85	324.13	311.06	297.90
135.0	364.59	364.68	361.26	354.77	346.76	336.22	323.08	310.38	296.96
150.0	364.59	363.95	360.33	354.25	338.75	335.75	322.97	309.46	297.13
165.0	364.59	364.31	360.12	353.91	345.88	335.03	322.62	309.94	295.06
180.0	364.59	361.74	355.79	348.41	338.27	326.63	314.18	300.04	286.98
195.0	364.59	361.47	356.04	348.47	338.67	327.01	313.74	300.11	287.64
210.0	364.59	361.64	356.38	348.71	338.46	327.58	313.57	300.82	286.64
225.0	364.59	362.34	356.59	348.06	339.07	327.30	313.83	299.63	285.70
240.0	364.59	361.89	356.68	348.31	338.15	326.02	313.16	298.23	284.57
255.0	364.59	362.25	356.86	349.13	339.16	327.20	313.63	300.24	287.48
270.0	364.59	362.07	356.59	349.03	338.96	326.29	314.33	300.12	289.33
285.0	364.59	362.79	357.32	350.32	339.64	328.51	315.22	302.30	299.51
300.0	364.59	361.81	356.98	349.73	346.86	327.53	314.10	299.87	286.53
315.0	364.59	362.25	357.56	350.09	340.19	328.30	314.70	300.57	286.52
330.0	364.59	362.23	357.79	350.17	340.74	328.77	315.72	302.30	288.88
345.0	364.59	363.04	358.11	351.45	341.87	330.37	317.51	303.55	290.68
360.0	364.59	363.88	360.85	354.72	347.07	336.94	324.85	311.78	298.09
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	285.91	272.84	261.99	244.39	224.30	207.14	189.63	161.89	126.33
15.0	285.77	273.48	262.62	252.11	235.10	220.85	208.03	190.66	173.12
30.0	288.25	277.72	267.64	257.92	250.25	243.92	238.12	233.04	229.12
45.0	289.66	279.24	269.44	260.82	253.63	247.61	243.12	239.79	237.37
60.0	289.78	278.90	269.37	261.01	253.91	248.15	244.02	240.60	239.88
75.0	289.10	278.59	269.78	261.24	254.14	248.21	243.00	239.04	236.89
90.0	289.15	278.54	269.01	260.29	253.19	247.07	242.58	238.53	235.03
105.0	288.38	277.61	268.46	259.93	252.39	246.65	241.80	238.12	235.61
120.0	286.71	275.70	266.21	258.07	251.17	245.27	241.42	238.28	236.85
135.0	285.71	275.44	265.72	257.44	249.96	244.38	240.15	237.27	235.10
150.0	284.62	274.82	264.58	255.60	247.80	242.09	237.29	233.66	229.94
165.0	283.75	271.43	260.94	249.35	234.94	220.80	208.21	191.78	177.37
180.0	274.53	262.71	247.95	228.39	210.61	195.32	169.45	135.13	89.88
195.0	273.75	261.64	251.40	232.88	214.80	199.21	179.80	150.32	125.39
210.0	273.17	259.26	246.33	233.04	218.95	205.04	192.91	182.29	176.94
225.0	271.78	257.85	243.39	229.37	214.73	200.89	186.88	176.72	175.02
240.0	272.07	258.76	245.46	232.33	219.92	209.04	199.60	192.59	189.26
255.0	275.71	263.58	252.07	241.56	232.57	224.31	217.12	215.14	210.02
270.0	277.82	267.03	256.16	253.46	238.80	232.06	226.93	223.16	221.09
285.0	277.70	265.77	254.46	244.05	234.80	226.81	219.90	214.96	212.45
300.0	272.84	259.95	246.97	234.61	222.89	211.88	202.84	195.14	191.65
315.0	273.55	259.51	245.46	230.87	216.74	201.88	188.19	177.48	174.14
330.0	275.10	261.04	247.35	234.29	220.69	206.46	193.58	182.52	176.08
345.0	276.63	264.68	253.82	237.86	219.61	200.63	184.85	156.84	131.20
360.0	285.91	272.84	261.99	244.39	224.30	207.14	189.63	161.89	126.33

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	79.92	88.55	129.00	159.67	179.85	195.41	213.63	234.61	241.19
15.0	161.01	161.37	174.81	191.56	207.58	221.66	237.69	250.87	261.02
30.0	225.90	225.01	228.13	233.22	238.21	243.74	250.70	259.26	268.80
45.0	235.66	235.21	236.92	240.06	243.75	248.87	255.43	263.33	271.69
60.0	239.88	240.33	241.68	242.94	245.64	250.13	256.78	264.52	273.69
75.0	236.17	236.53	238.15	240.39	244.26	250.01	256.84	265.20	274.18
90.0	233.32	233.23	234.94	237.90	242.94	248.42	255.62	263.98	273.69
105.0	234.53	234.80	236.42	238.84	243.06	248.62	255.44	263.25	272.59
120.0	236.49	236.94	237.75	239.45	242.58	247.41	254.13	262.01	270.87
135.0	233.93	233.93	235.37	238.17	241.50	246.90	253.38	260.86	269.50
150.0	227.13	226.68	229.76	234.75	239.46	244.27	251.61	260.23	269.47
165.0	169.25	173.08	184.94	200.54	213.77	227.73	242.42	255.65	265.69
180.0	84.01	125.44	156.20	178.96	195.58	213.28	232.83	243.95	254.35
195.0	125.30	136.34	150.32	163.68	176.33	189.06	193.25	187.28	193.96
210.0	176.67	180.06	183.63	189.43	197.10	203.16	201.56	197.72	200.49
225.0	175.11	178.79	184.45	190.83	196.85	204.13	205.02	219.31	227.75
240.0	190.34	193.76	194.12	202.84	209.31	216.50	224.42	233.14	242.31
255.0	210.47	213.79	218.82	223.77	229.52	236.62	244.17	253.33	261.87
270.0	221.54	223.52	227.92	232.51	237.72	244.65	251.75	259.57	267.57
285.0	212.27	215.05	219.72	225.20	231.48	238.57	247.37	256.25	265.05
300.0	192.27	195.50	200.24	206.06	211.88	219.49	227.45	237.30	247.95
315.0	173.78	177.03	182.43	189.09	195.67	200.62	207.37	215.38	223.76
330.0	175.72	179.26	182.34	187.14	194.85	202.01	206.19	201.11	205.73
345.0	126.27	132.93	145.25	156.02	166.60	179.47	184.12	179.92	185.49
360.0	79.92	88.55	129.00	159.67	179.85	195.41	213.63	234.61	241.19
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	252.66	269.91	283.51	297.82	277.73	236.66	245.46	283.33	268.13
15.0	270.01	281.50	294.15	307.41	320.42	272.33	258.88	302.78	272.68
30.0	277.99	287.00	298.14	310.72	324.28	330.61	269.78	282.00	299.57
45.0	281.39	291.99	303.13	315.17	327.66	339.70	336.20	277.26	289.57
60.0	282.95	293.20	304.53	316.66	329.43	340.49	349.75	347.77	281.96
75.0	283.62	294.85	305.81	318.22	330.89	342.03	351.11	356.05	357.85
90.0	283.76	295.09	306.33	318.46	330.87	342.11	351.01	356.59	359.46
105.0	282.46	293.14	305.17	317.02	329.94	342.06	352.29	358.48	362.07
120.0	280.53	291.10	302.47	315.62	328.78	340.42	349.55	356.98	360.56
135.0	279.05	290.03	300.57	314.07	326.86	338.47	348.65	355.58	358.37
150.0	279.72	289.15	300.12	312.36	325.24	336.93	347.00	354.07	356.61
165.0	276.18	287.03	298.99	311.85	324.72	336.39	346.16	352.91	356.19
180.0	267.68	282.00	297.73	305.47	250.26	248.84	280.31	272.13	291.78
195.0	207.41	214.09	225.75	230.03	213.28	214.62	255.50	265.29	307.68
210.0	211.99	212.53	220.20	225.90	220.73	239.46	252.04	267.55	308.58
225.0	234.76	235.84	234.40	239.97	250.22	260.10	262.97	267.91	279.15
240.0	248.33	246.71	246.62	248.78	254.81	264.61	271.17	261.46	247.88
255.0	267.62	272.03	274.72	276.43	280.29	290.36	298.98	256.30	197.89
270.0	276.30	284.84	293.29	298.05	299.76	306.42	302.82	191.96	219.56
285.0	274.83	283.18	283.54	284.70	290.09	299.33	216.85	194.32	302.75
300.0	257.62	258.78	255.20	256.46	266.12	220.56	180.10	253.50	320.37
315.0	231.59	232.04	230.42	233.84	203.23	172.88	203.86	261.67	323.89
330.0	221.42	234.38	235.93	225.50	182.52	188.87	229.40	273.01	327.96
345.0	205.83	218.42	223.62	220.89	207.66	218.24	271.43	308.20	334.30
360.0	252.66	269.91	283.51	297.82	277.73	236.66	245.46	283.33	268.13

Intensity data(cd)

C/ γ (°)	180.0
0.0	308.93
15.0	297.17
30.0	274.60
45.0	274.47
60.0	262.81
75.0	279.57
90.0	355.69
105.0	357.77
120.0	355.81
135.0	355.13
150.0	354.89
165.0	355.28
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	308.93