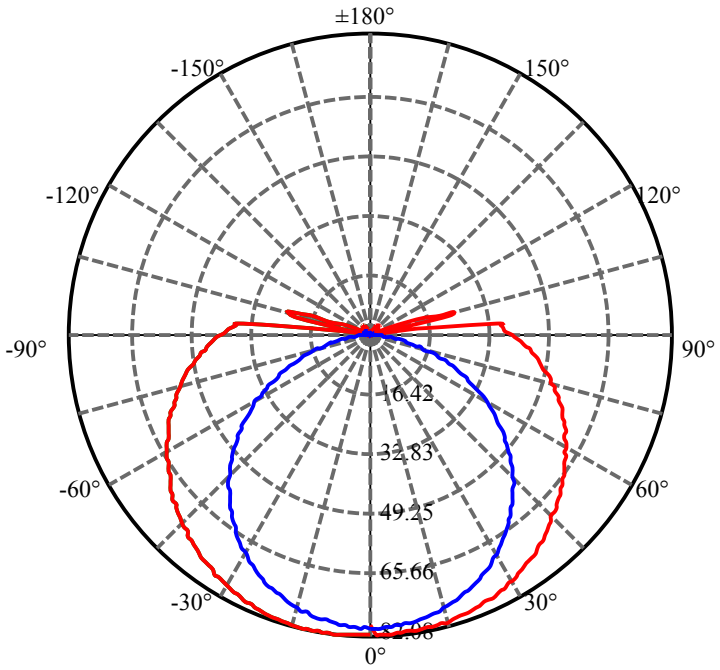
LumCAT: Eckenheim 300
Luminaire: 4 W 3000 K

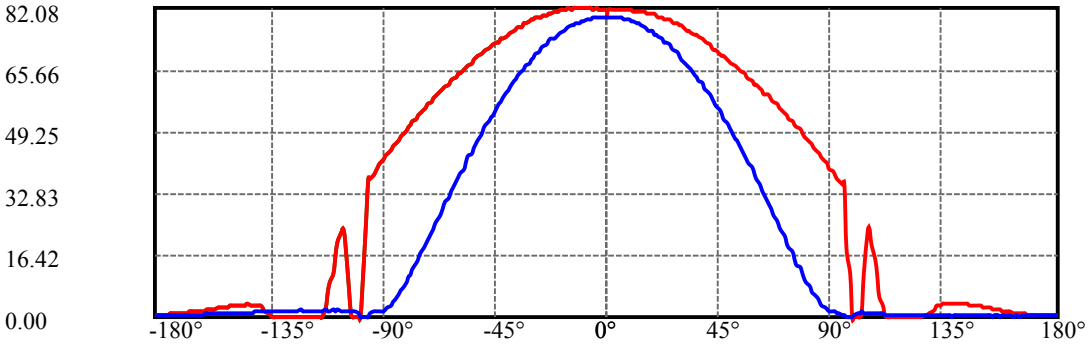
Report No: WG17044545P-1	Voltage(V): 220.0100
Test No: WG17044545P-1	Current(A): 0.0360
LampCAT:	Power (W): 4.3300
Lamp flux(lm)	PF: 0.5407
Number of Lamps: 0	Ballast type:
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 348.97
Lumens(lm)/Power(W): 80.59
Central intensity(cd): 78.912
Maximum intensity(cd): 82.080
Angle of maximum intensity: C=180.0 γ=9.0
Beam Angle(50%Imax): [C0/180]Total=177.0
[C90/270]Total=114.5
Field angle(10%Imax): [C0/180]Total=219.0
[C90/270]Total=161.8
Beam angle of C180plane: 177.35
Aveage BeamAngle(IEC 61341):147.75
Maximum s/h(1/2): C0_180=1.44 C90_270=1.28
Maximum s/h(1/4): C0_180=1.60 C90_270=1.40
Up flux rate of LUM(%): 7.33%
Down flux rate of LUM(%): 92.67%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 59.482%

Light Distribution Curve [Unit:cd]





C180(Max):

C0/C180:

C90/C270:

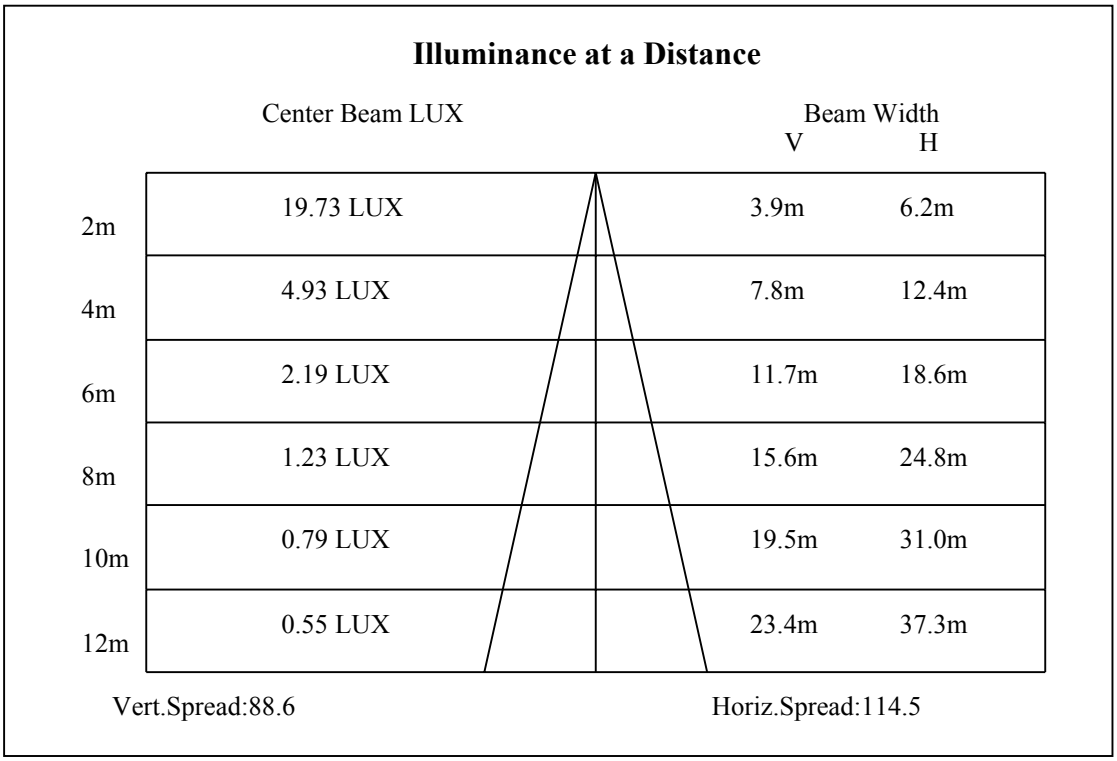
Field angle(10%Imax):C0/180Left:101.4 Right:117.5

:C90/270Left:82.9 Right:79.0

Beam Angle(50%Imax):C0/180Left:80.6 Right:96.4

:C90/270Left:58.8 Right:55.7

Lux distance Curve



Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	78.91	81.79	81.65	81.50	81.65	81.50	81.50	81.36	81.50
30.0	80.06	79.92	80.06	80.21	80.06	80.06	80.06	80.06	79.92
60.0	80.35	80.35	80.35	80.35	80.35	80.21	80.21	80.06	80.06
90.0	79.78	79.78	79.78	79.49	79.63	79.34	79.34	79.20	79.06
120.0	79.34	79.34	79.34	79.34	79.20	78.91	79.06	78.91	78.77
150.0	80.06	80.06	80.06	80.06	79.92	80.06	80.06	79.92	79.92
180.0	81.65	81.65	81.79	81.79	81.94	81.79	81.94	81.94	81.94
210.0	80.06	79.92	80.06	79.78	79.63	79.63	79.63	79.63	79.49
240.0	80.35	80.50	80.21	80.21	79.92	80.06	79.92	79.78	79.63
270.0	79.78	79.63	79.78	79.63	79.49	79.34	79.20	79.06	78.91
300.0	79.34	79.34	79.34	79.34	79.20	79.06	78.91	78.77	78.77
330.0	80.06	80.35	80.21	80.21	80.21	80.06	80.06	80.21	80.21
360.0	78.91	81.79	81.65	81.50	81.65	81.50	81.50	81.36	81.50

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	81.36	81.36	81.22	81.07	80.93	80.93	80.93	80.64	80.50
30.0	80.06	79.92	79.92	79.63	79.63	79.63	79.49	79.34	79.34
60.0	79.63	79.63	79.34	79.06	79.06	78.91	78.62	78.19	77.90
90.0	78.91	78.62	78.34	78.19	77.76	77.47	77.04	76.61	76.18
120.0	78.62	78.34	78.05	78.05	77.76	77.62	77.18	76.90	76.75
150.0	79.63	79.63	79.49	79.34	79.20	79.06	78.91	78.62	78.48
180.0	82.08	81.94	81.94	81.94	81.94	81.79	81.94	81.65	81.50
210.0	79.49	79.49	79.20	79.06	78.77	78.77	78.62	78.48	78.19
240.0	79.34	79.34	79.06	78.62	78.48	78.05	78.05	77.62	77.33
270.0	78.48	78.48	78.19	77.90	77.47	77.47	76.75	76.61	76.03
300.0	78.62	78.34	78.19	77.90	77.76	77.47	77.33	77.04	76.61
330.0	80.06	80.06	79.92	79.92	79.78	79.78	79.78	79.63	79.34
360.0	81.36	81.36	81.22	81.07	80.93	80.93	80.93	80.64	80.50

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	80.35	80.35	80.06	79.63	79.34	79.06	78.91	78.77	78.34
30.0	79.06	79.06	78.77	78.62	78.19	78.19	77.76	77.47	77.04
60.0	77.47	77.18	76.75	76.32	76.18	75.60	75.17	74.74	74.02
90.0	75.89	75.17	74.74	74.30	73.73	73.15	72.72	72.14	71.28
120.0	76.18	75.89	75.74	75.17	74.74	74.45	73.73	73.30	73.01
150.0	78.34	77.90	77.76	77.47	77.47	77.18	76.75	76.46	76.18
180.0	81.36	81.22	81.07	80.93	80.78	80.50	80.21	80.06	79.63
210.0	77.90	77.76	77.47	77.33	77.04	76.75	76.32	76.18	75.74
240.0	76.90	76.46	76.03	75.60	75.31	74.74	74.45	73.87	73.30
270.0	75.46	74.88	74.59	74.02	73.73	73.30	72.43	71.86	71.14
300.0	76.18	75.89	75.60	75.17	74.45	74.16	73.73	73.44	72.86
330.0	79.20	79.06	78.77	78.77	78.48	78.05	78.05	77.62	77.33
360.0	80.35	80.35	80.06	79.63	79.34	79.06	78.91	78.77	78.34

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	78.19	77.90	77.33	77.33	76.75	76.18	75.89	75.31	75.02
30.0	76.90	76.61	76.32	75.89	75.74	75.02	74.88	74.45	73.87
60.0	73.44	73.15	72.58	71.71	71.42	70.85	69.98	69.55	68.98
90.0	70.85	70.27	69.12	68.54	67.68	66.96	66.38	65.52	64.37
120.0	72.14	71.86	71.14	70.56	69.98	69.41	68.83	67.97	67.54
150.0	75.74	75.46	74.88	74.74	74.02	73.73	73.44	73.01	72.29
180.0	79.49	79.34	78.91	78.77	78.34	77.90	77.76	77.04	76.75
210.0	75.31	75.02	74.59	74.16	73.87	73.58	72.86	72.86	72.14
240.0	72.86	72.14	71.42	70.85	70.27	69.55	69.12	68.26	67.54
270.0	70.56	69.84	68.98	68.11	67.54	66.67	65.95	65.09	64.08
300.0	72.29	71.86	71.14	70.70	70.27	69.84	68.69	68.26	67.54
330.0	77.18	76.75	76.46	76.03	75.74	75.31	74.88	74.45	74.02
360.0	78.19	77.90	77.33	77.33	76.75	76.18	75.89	75.31	75.02

Intensity data(cd)

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	74.88	74.30	73.87	73.44	72.86	72.14	71.57	70.99	70.70
30.0	73.44	73.15	72.43	72.14	71.57	70.85	70.42	69.84	69.12
60.0	68.26	67.39	66.67	65.95	65.23	64.22	63.50	62.64	61.63
90.0	63.65	62.78	62.06	60.77	59.90	59.18	57.89	56.88	56.16
120.0	66.82	65.95	65.38	64.80	63.65	63.07	62.21	61.06	60.62
150.0	72.00	71.42	71.14	70.56	69.70	69.26	68.69	68.26	67.97
180.0	76.46	76.03	75.60	75.02	74.45	74.16	73.87	73.15	72.86
210.0	71.42	70.99	70.56	69.98	69.70	69.12	68.40	68.11	67.39
240.0	66.96	66.53	65.38	64.80	63.94	62.93	62.35	61.49	60.34
270.0	63.22	62.50	61.34	60.34	59.62	58.32	57.31	56.45	55.58
300.0	66.96	66.10	65.38	64.51	63.94	63.22	62.21	61.49	60.62
330.0	73.58	73.15	73.01	72.58	71.71	71.42	70.42	69.98	69.55
360.0	74.88	74.30	73.87	73.44	72.86	72.14	71.57	70.99	70.70

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	69.84	69.55	69.12	68.40	67.97	67.25	66.67	66.24	65.52
30.0	68.83	67.97	67.25	66.38	66.10	65.38	64.51	64.08	63.50
60.0	61.34	60.19	59.04	58.18	57.46	56.30	55.44	54.86	53.42
90.0	54.86	54.00	52.70	51.55	50.26	49.39	47.66	46.66	45.65
120.0	59.76	58.90	58.03	57.17	56.16	55.44	54.43	53.42	52.70
150.0	67.25	66.53	65.95	65.23	64.66	64.08	63.36	62.93	61.92
180.0	72.29	71.71	71.42	70.70	70.13	69.98	69.12	68.69	68.11
210.0	66.67	66.10	65.66	64.80	64.08	63.79	63.07	62.50	61.92
240.0	59.18	59.04	57.74	56.88	56.30	55.15	53.71	53.57	52.13
270.0	53.71	53.14	52.13	50.83	50.11	48.24	47.09	45.94	45.07
300.0	58.90	58.75	58.03	57.02	56.45	55.44	54.29	53.28	52.85
330.0	69.12	68.11	67.68	67.25	66.24	65.81	65.09	64.80	63.79
360.0	69.84	69.55	69.12	68.40	67.97	67.25	66.67	66.24	65.52

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	65.09	64.51	63.79	63.07	62.64	61.78	61.49	60.77	59.90
30.0	62.50	61.92	61.92	60.48	59.90	59.18	58.32	57.74	57.02
60.0	52.56	51.55	50.40	49.82	48.67	47.66	46.66	45.50	44.50
90.0	44.64	42.91	41.90	40.61	39.60	38.02	36.58	34.99	33.84
120.0	51.55	50.54	49.82	48.38	47.52	46.80	45.50	44.64	43.78
150.0	61.34	60.91	60.05	59.76	58.75	58.18	57.17	56.59	55.87
180.0	67.39	66.67	66.24	65.66	64.94	64.66	63.94	63.22	62.50
210.0	61.20	60.62	59.90	59.33	58.32	57.89	57.31	56.30	55.73
240.0	51.55	50.40	49.39	47.95	47.38	46.37	45.79	44.35	43.20
270.0	43.49	42.62	41.18	39.46	38.30	37.30	36.00	34.13	33.26
300.0	51.70	50.83	49.68	48.67	48.10	46.66	45.65	45.07	43.49
330.0	63.36	62.78	61.78	61.06	60.19	59.76	59.04	58.46	57.74
360.0	65.09	64.51	63.79	63.07	62.64	61.78	61.49	60.77	59.90

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	59.33	59.04	58.46	57.74	57.02	56.45	55.73	55.01	54.14
30.0	56.16	55.58	54.58	53.57	53.14	52.27	51.26	50.69	49.68
60.0	43.78	42.34	41.18	40.61	39.31	38.16	37.44	36.14	35.42
90.0	32.54	30.67	29.66	28.37	26.78	25.34	23.90	22.75	21.46
120.0	42.77	41.62	40.90	40.03	38.45	37.58	36.72	35.42	34.56
150.0	55.01	54.43	53.71	52.70	52.13	51.26	50.40	49.68	48.96
180.0	61.63	61.34	60.77	59.90	59.47	58.46	58.03	56.88	56.45
210.0	55.01	54.14	53.57	52.70	52.27	51.41	50.83	50.11	49.39
240.0	42.62	41.18	40.18	39.02	38.02	37.01	36.43	35.42	34.13
270.0	31.82	30.82	29.09	27.65	26.64	24.91	23.47	22.46	20.59
300.0	42.62	41.90	40.61	39.60	38.74	37.58	36.58	35.86	34.85
330.0	57.02	56.30	55.58	54.86	54.14	53.57	52.27	51.84	50.98
360.0	59.33	59.04	58.46	57.74	57.02	56.45	55.73	55.01	54.14

Intensity data(cd)

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	53.71	52.70	51.98	51.12	50.54	49.82	48.82	48.10	47.38
30.0	48.67	48.24	47.23	46.51	45.79	45.22	44.50	43.92	43.06
60.0	34.13	33.41	32.83	31.10	30.10	29.52	28.08	27.22	26.50
90.0	19.58	18.58	17.28	15.41	13.97	13.10	11.66	10.37	9.36
120.0	33.70	32.26	31.54	30.67	29.38	28.80	27.65	26.64	25.92
150.0	48.38	47.38	46.51	45.79	45.22	43.92	43.34	42.62	41.62
180.0	55.73	55.15	54.14	53.57	52.56	51.84	51.12	50.54	49.39
210.0	48.53	48.10	46.66	45.94	45.07	44.06	43.49	42.19	41.76
240.0	33.26	32.26	31.10	30.53	29.38	28.22	27.65	26.78	25.63
270.0	19.15	18.29	16.99	15.12	14.26	12.82	11.23	10.51	9.22
300.0	33.55	32.83	31.82	30.53	29.81	28.94	27.65	27.07	26.06
330.0	50.54	49.54	48.82	47.81	46.94	45.65	44.93	44.35	43.34
360.0	53.71	52.70	51.98	51.12	50.54	49.82	48.82	48.10	47.38

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	46.37	45.94	44.78	44.06	43.49	42.19	41.33	40.61	39.46
30.0	42.62	41.62	41.04	40.32	39.31	38.45	37.87	36.72	35.71
60.0	25.34	24.19	23.18	22.61	21.89	20.88	20.45	19.58	18.86
90.0	7.92	6.77	5.90	5.04	3.89	3.31	2.74	1.87	1.58
120.0	24.77	23.90	23.18	22.46	21.46	20.88	20.45	19.15	18.72
150.0	41.04	40.03	39.17	38.59	37.87	36.86	36.29	35.42	34.99
180.0	48.67	47.81	47.09	46.08	45.22	44.50	43.49	42.77	41.76
210.0	40.61	39.60	39.02	38.02	37.30	36.43	35.57	34.85	33.55
240.0	24.77	24.05	22.75	21.89	21.31	20.30	19.15	18.72	17.86
270.0	7.78	6.91	5.90	4.61	4.03	3.31	2.59	2.16	1.73
300.0	25.34	24.19	23.18	22.18	21.46	20.16	19.30	18.43	17.57
330.0	42.05	41.33	40.46	39.46	38.59	37.44	36.72	36.43	34.70
360.0	46.37	45.94	44.78	44.06	43.49	42.19	41.33	40.61	39.46

C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	38.59	37.87	36.86	36.14	35.42	34.42	18.58	11.09	0.00
30.0	34.99	33.55	32.98	31.68	30.53	14.40	2.45	0.00	0.14
60.0	17.14	16.27	10.80	0.43	0.00	1.44	10.51	8.50	5.47
90.0	1.58	1.30	1.15	1.01	0.58	0.29	0.00	0.14	0.00
120.0	17.71	17.14	16.56	15.26	1.15	0.29	0.14	7.34	11.52
150.0	33.41	32.54	31.97	30.82	27.22	13.54	0.14	0.14	0.14
180.0	40.61	39.74	38.88	37.73	36.86	36.00	26.06	7.63	0.14
210.0	32.98	32.11	31.39	30.53	30.24	28.66	17.71	7.20	0.14
240.0	16.99	16.56	15.98	12.82	3.60	1.44	0.29	4.90	11.52
270.0	1.44	1.30	1.30	1.30	1.01	0.14	0.00	0.14	0.14
300.0	16.70	16.13	15.41	11.23	2.16	0.29	0.58	6.48	8.78
330.0	33.41	32.54	31.82	31.10	29.81	28.94	24.19	0.14	0.14
360.0	38.59	37.87	36.86	36.14	35.42	34.42	18.58	11.09	0.00

C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	0.14	0.14	0.14	1.44	11.09	22.32	23.47	19.44	15.26
30.0	0.29	1.87	12.38	16.42	14.69	10.94	8.50	5.33	1.15
60.0	0.72	0.14	0.29	0.14	0.14	0.14	0.14	0.14	0.14
90.0	0.58	1.15	1.15	1.30	1.15	1.15	1.01	1.01	1.01
120.0	10.66	6.34	3.89	0.58	0.29	0.29	0.14	0.14	0.14
150.0	0.29	2.88	10.80	16.85	16.42	14.69	12.10	10.22	6.77
180.0	0.00	0.00	0.00	1.15	7.49	20.45	23.33	22.46	19.87
210.0	0.29	1.87	1.01	8.21	14.54	16.42	15.70	14.11	10.66
240.0	6.19	4.46	3.60	0.58	0.14	0.14	0.14	0.14	0.14
270.0	0.86	1.44	1.58	1.58	1.58	1.58	1.58	1.73	1.87
300.0	5.04	2.59	0.29	0.14	0.14	0.29	0.14	0.14	0.14
330.0	0.14	0.14	4.61	12.82	15.26	13.25	10.51	7.92	3.02
360.0	0.14	0.14	0.14	1.44	11.09	22.32	23.47	19.44	15.26

Intensity data(cd)

C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	11.09	5.76	2.88	0.58	0.00	0.00	0.00	0.00	0.14
30.0	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.43	0.43	0.58	1.15	1.73	2.74	3.17	3.17	3.31
90.0	1.01	1.01	0.86	0.72	0.58	0.58	0.58	0.58	0.58
120.0	0.14	0.14	0.14	0.14	0.14	0.29	0.29	0.58	0.58
150.0	3.74	1.58	0.58	0.43	0.29	0.29	0.14	0.14	0.14
180.0	16.42	11.95	9.36	6.77	2.45	0.14	0.00	0.14	0.00
210.0	7.78	5.33	2.16	0.14	0.14	0.00	0.14	0.14	0.00
240.0	0.43	0.43	0.58	0.14	0.29	0.58	0.58	0.58	0.86
270.0	1.73	1.87	1.73	1.58	1.87	1.73	1.58	1.73	1.58
300.0	0.14	0.14	0.43	0.58	0.72	1.58	2.45	3.02	3.31
330.0	0.72	0.72	0.58	0.43	0.14	0.29	0.14	0.14	0.14
360.0	11.09	5.76	2.88	0.58	0.00	0.00	0.00	0.00	0.14

C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	0.14	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00
30.0	0.00	0.14	0.14	0.14	0.14	0.43	0.29	0.72	1.58
60.0	3.46	3.31	3.31	3.17	3.17	3.02	2.88	2.88	2.59
90.0	0.58	0.58	0.58	0.58	0.43	0.58	0.43	0.43	0.43
120.0	1.30	1.73	2.16	2.45	2.74	2.74	2.74	2.74	2.59
150.0	0.00	0.14	0.00	0.14	0.00	0.14	0.14	0.00	0.14
180.0	0.14	0.14	0.14	0.00	0.00	0.00	0.14	0.14	0.00
210.0	0.00	0.14	0.14	0.14	0.14	0.14	0.29	0.72	0.14
240.0	1.73	2.16	2.88	3.17	2.88	3.02	3.17	3.17	3.17
270.0	1.58	1.73	1.58	1.73	1.73	1.87	1.73	1.58	1.58
300.0	3.17	3.31	3.46	3.46	3.60	3.46	3.31	3.17	3.17
330.0	0.00	0.14	0.14	0.14	0.00	0.14	0.14	0.43	0.58
360.0	0.14	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00

C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	0.14	0.29	0.43	0.86	1.30	2.02	3.17	3.31	3.46
30.0	2.02	2.74	2.74	2.74	2.88	3.17	3.46	3.17	3.17
60.0	2.45	2.45	2.16	2.16	2.16	1.87	1.73	1.73	1.58
90.0	0.29	0.43	0.43	0.58	0.43	0.29	0.58	0.43	0.43
120.0	2.74	2.74	2.59	2.45	2.30	2.16	2.02	2.02	1.87
150.0	0.29	0.14	0.29	0.58	0.86	1.58	2.30	2.45	2.74
180.0	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.58
210.0	0.29	2.74	0.43	0.29	0.58	1.01	1.58	2.30	3.02
240.0	3.02	3.17	3.17	3.02	3.02	3.02	2.88	2.88	2.74
270.0	1.73	1.58	1.58	1.44	1.44	1.58	1.44	1.30	1.30
300.0	3.17	3.17	3.02	2.88	2.74	2.74	2.59	2.45	2.45
330.0	0.72	1.15	2.30	2.74	3.31	3.31	3.31	3.46	3.74
360.0	0.14	0.29	0.43	0.86	1.30	2.02	3.17	3.31	3.46

C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	3.46	3.46	3.74	3.74	3.74	3.60	3.60	3.46	3.46
30.0	2.88	2.88	3.02	2.88	2.88	2.74	2.74	2.59	2.45
60.0	1.44	1.44	1.30	1.30	1.15	1.15	1.15	1.01	1.15
90.0	0.43	0.43	0.29	0.14	0.29	0.29	0.43	0.43	0.29
120.0	1.87	1.58	1.58	1.44	1.58	1.58	1.44	1.44	1.58
150.0	2.74	2.88	2.88	2.88	2.88	3.02	2.88	2.88	2.74
180.0	1.01	1.73	2.30	3.02	3.17	3.31	3.31	3.31	3.46
210.0	3.31	3.31	3.46	3.60	3.60	3.60	3.60	3.60	3.60
240.0	2.59	2.59	2.59	2.59	2.59	2.45	2.45	2.30	2.16
270.0	1.30	1.30	1.30	1.30	1.30	1.30	1.15	1.15	1.01
300.0	2.30	2.30	2.30	2.30	2.16	2.16	2.02	2.02	1.87
330.0	3.60	3.74	3.60	3.60	3.60	3.60	3.46	3.46	3.31
360.0	3.46	3.46	3.74	3.74	3.74	3.60	3.60	3.46	3.46

Intensity data(cd)

C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	3.46	3.31	3.17	3.02	2.88	2.88	2.74	2.59	2.45
30.0	2.30	2.30	2.16	2.02	2.02	1.87	1.87	1.73	1.73
60.0	1.01	0.86	1.01	0.72	0.86	0.58	0.58	0.72	0.58
90.0	0.43	0.29	0.43	0.43	0.29	0.29	0.29	0.29	0.43
120.0	1.30	1.15	1.30	1.15	1.01	1.15	1.15	1.15	1.01
150.0	2.59	2.59	2.45	2.30	2.30	2.16	2.16	2.02	1.73
180.0	3.17	3.31	3.17	3.17	3.17	2.88	2.88	2.74	2.45
210.0	3.46	3.31	3.17	3.17	2.88	3.02	2.88	2.88	2.74
240.0	2.16	2.30	2.16	2.02	2.02	1.73	1.87	1.73	1.58
270.0	1.15	1.15	1.15	1.01	1.15	1.01	1.01	1.01	0.86
300.0	1.87	1.87	1.87	1.73	1.73	1.58	1.73	1.44	1.44
330.0	3.31	2.88	2.74	2.74	2.59	2.45	2.45	2.30	2.16
360.0	3.46	3.31	3.17	3.02	2.88	2.88	2.74	2.59	2.45

C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	2.30	2.16	2.02	1.87	1.87	1.73	1.58	1.58	1.30
30.0	1.58	1.44	1.30	1.30	1.15	1.15	1.15	0.86	1.01
60.0	0.58	0.72	0.58	0.58	0.58	0.43	0.43	0.43	0.43
90.0	0.29	0.14	0.29	0.29	0.14	0.43	0.29	0.43	0.29
120.0	1.15	1.01	1.01	1.01	1.01	0.86	0.86	0.86	0.86
150.0	1.73	1.73	1.58	1.58	1.44	1.30	1.44	1.30	1.30
180.0	2.45	2.30	2.30	2.02	2.02	1.87	1.87	1.73	1.73
210.0	2.45	2.45	2.30	2.30	2.16	2.02	2.02	2.02	1.87
240.0	1.58	1.58	1.58	1.58	1.58	1.44	1.44	1.15	1.15
270.0	1.01	1.01	0.86	0.86	0.86	1.01	0.86	0.86	0.72
300.0	1.44	1.30	1.30	1.30	1.15	1.15	1.15	1.15	1.15
330.0	2.02	2.02	1.87	1.87	1.73	1.58	1.44	1.58	1.44
360.0	2.30	2.16	2.02	1.87	1.87	1.73	1.58	1.58	1.30

C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	1.15	1.15	1.01	1.01	0.86	0.86	0.58	0.72	0.72
30.0	1.01	0.72	0.58	0.72	0.58	0.58	0.58	0.58	0.58
60.0	0.43	0.29	0.29	0.29	0.43	0.43	0.29	0.43	0.29
90.0	0.14	0.29	0.29	0.14	0.29	0.43	0.29	0.29	0.29
120.0	0.86	0.72	0.72	0.72	0.72	0.72	0.72	0.58	0.58
150.0	1.15	1.30	1.15	0.86	1.01	0.86	1.01	1.01	0.86
180.0	1.58	1.58	1.44	1.30	1.30	1.15	1.01	1.01	1.15
210.0	1.73	1.58	1.58	1.44	1.58	1.30	1.15	1.15	1.01
240.0	1.30	1.15	1.15	1.01	1.01	1.01	1.15	1.01	1.01
270.0	0.72	0.58	0.72	0.72	0.72	0.58	0.58	0.72	0.58
300.0	1.01	1.01	0.86	0.86	0.86	0.86	0.72	0.58	0.58
330.0	1.30	1.30	1.30	1.01	1.15	0.86	1.01	1.01	0.72
360.0	1.15	1.15	1.01	1.01	0.86	0.86	0.58	0.72	0.72

C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	0.72	0.58	0.72	0.72	0.58	0.58	0.58	0.58	0.58
30.0	0.43	0.43	0.29	0.43	0.14	0.29	0.29	0.43	0.58
60.0	0.29	0.29	0.29	0.29	0.29	0.43	0.43	0.58	0.58
90.0	0.43	0.43	0.29	0.29	0.43	0.58	0.58	0.58	0.58
120.0	0.58	0.58	0.58	0.58	0.43	0.43	0.58	0.58	0.58
150.0	0.72	0.72	0.72	0.58	0.58	0.58	0.58	0.58	0.58
180.0	0.86	1.01	1.01	0.86	0.58	0.58	0.72	0.43	0.58
210.0	1.01	1.01	1.01	1.01	0.72	0.86	0.58	0.72	0.58
240.0	0.86	0.86	0.86	0.72	0.72	0.58	0.58	0.72	0.58
270.0	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
300.0	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
330.0	0.72	0.72	0.58	0.58	0.58	0.58	0.43	0.58	0.43
360.0	0.72	0.58	0.72	0.72	0.58	0.58	0.58	0.58	0.58

Intensity data(cd)

C/γ(°)	180.0
0.0	0.43
30.0	0.58
60.0	0.58
90.0	0.58
120.0	0.58
150.0	0.58
180.0	0.43
210.0	0.58
240.0	0.58
270.0	0.58
300.0	0.58
330.0	0.58
360.0	0.43