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Ten-Lighting Technology Co.Ltd

LumCAT: LED Downlights

Luminaire: D012-S20W

Report No: 18-0555-01

Test No: 18-0555-01

LampCAT: LED

Lamp flux(lm)

Number of Lamps: 1

Length(mm): 107

Phm Type: C

Voltage(V): 219.9900

Current(A): 0.1400

Power (W): 11.2200

PF: 0.3640

Ballast type: Ten-Lighting/YD12-40-300

Width(mm): 107

Height(mm): 38

Photometric Results

Lumens(lm): 688.96

Lumens(lm)/Power(W): 61.40

Central intensity(cd): 299.700

Maximum intensity(cd): 300.499

Angle of maximum intensity: $C=120.0 \gamma=2.5$

Beam Angle(50%Imax): [C0/180]Left=48.8 Right=48.9

[C90/270]Left=48.1 Right=49.2

Field angle(10%Imax): [C0/180]Left=74.9 Right=74.9

[C90/270]Left=71.7 Right=72.4

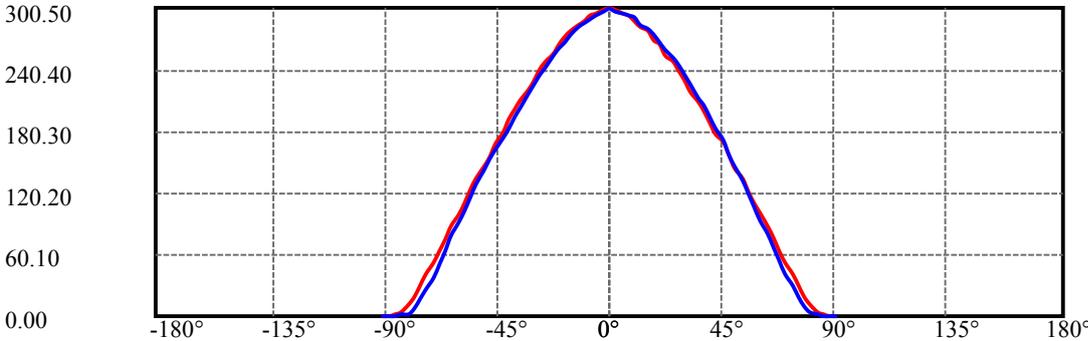
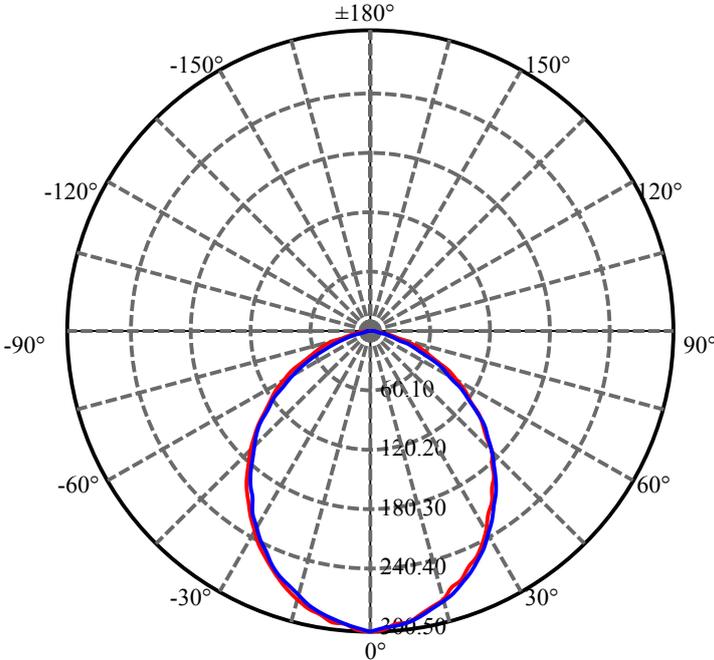
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	299.700	.000	.000	.000%	.000%
2.5	297.630	1.786	1.786	.259%	.259%
5.0	295.177	5.314	7.100	.771%	1.031%
7.5	291.891	8.760	15.861	1.272%	2.302%
10.0	287.862	12.088	27.949	1.755%	4.057%
12.5	283.006	15.265	43.214	2.216%	6.272%
15.0	277.528	18.262	61.476	2.651%	8.923%
17.5	271.245	21.048	82.524	3.055%	11.978%
20.0	264.158	23.589	106.114	3.424%	15.402%
22.5	256.704	25.876	131.989	3.756%	19.158%
25.0	248.368	27.882	159.871	4.047%	23.205%
27.5	239.449	29.573	189.444	4.292%	27.497%
30.0	230.081	30.955	220.399	4.493%	31.990%
32.5	220.396	32.032	252.431	4.649%	36.640%
35.0	210.456	32.810	285.240	4.762%	41.402%
37.5	200.100	33.275	318.515	4.830%	46.232%
40.0	189.300	33.408	351.923	4.849%	51.081%
42.5	178.466	33.237	385.160	4.824%	55.905%
45.0	167.549	32.797	417.956	4.760%	60.665%
47.5	156.122	32.047	450.004	4.652%	65.317%
50.0	144.544	30.984	480.988	4.497%	69.814%
52.5	132.645	29.631	510.619	4.301%	74.115%
55.0	120.679	28.002	538.620	4.064%	78.179%
57.5	108.680	26.139	564.760	3.794%	81.973%
60.0	96.564	24.051	588.810	3.491%	85.464%
62.5	84.332	21.738	610.549	3.155%	88.619%
65.0	72.028	19.222	629.770	2.790%	91.409%
67.5	59.624	16.517	646.287	2.397%	93.807%
70.0	47.269	13.655	659.942	1.982%	95.789%
72.5	35.426	10.733	670.676	1.558%	97.347%
75.0	24.337	7.864	678.540	1.141%	98.488%
77.5	14.708	5.198	683.738	.755%	99.243%
80.0	7.204	2.946	686.684	.428%	99.670%
82.5	2.781	1.353	688.036	.196%	99.867%
85.0	1.160	.537	688.573	.078%	99.944%
87.5	.616	.243	688.816	.035%	99.980%
90.0	.405	.140	688.956	.020%	100.000%

ZONAL LUMEN SUMMARY

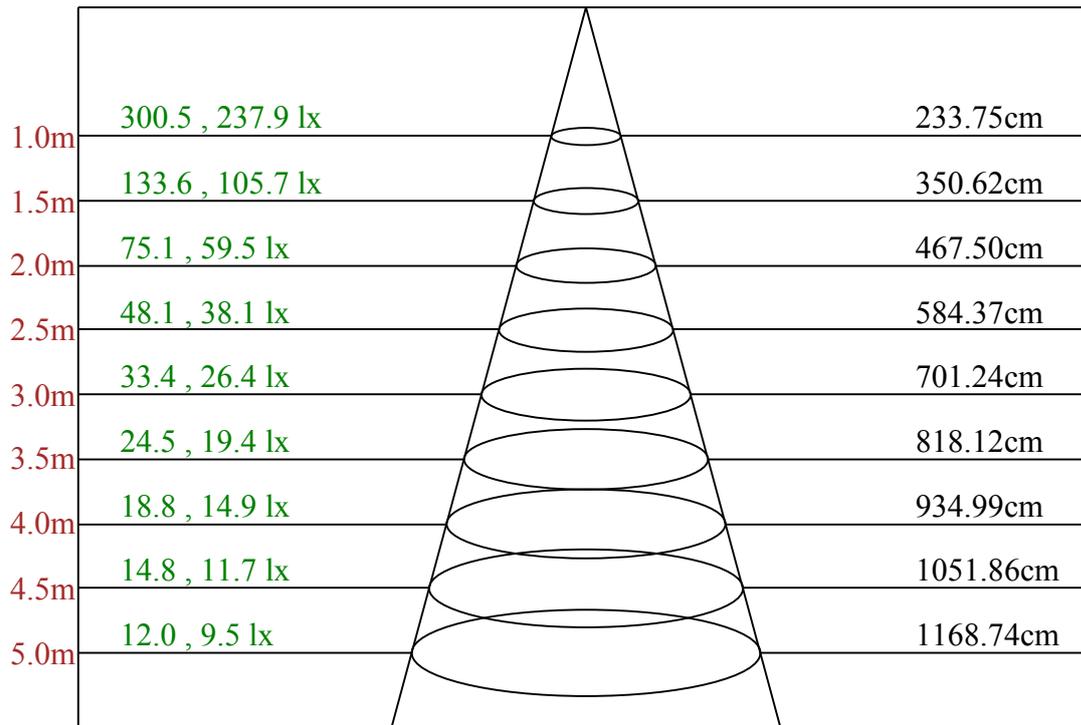
Zone	Lumens	%Fixt
0-30	220.40	31.99%
0-40	351.92	51.08%
0-60	588.81	85.46%
0-90	688.82	99.98%
0-120	688.82	99.98%
0-180	688.96	100.00%
60-90	124.06	18.01%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-56.20	551.16	80.00%

ZONAL LUMEN SUMMARY

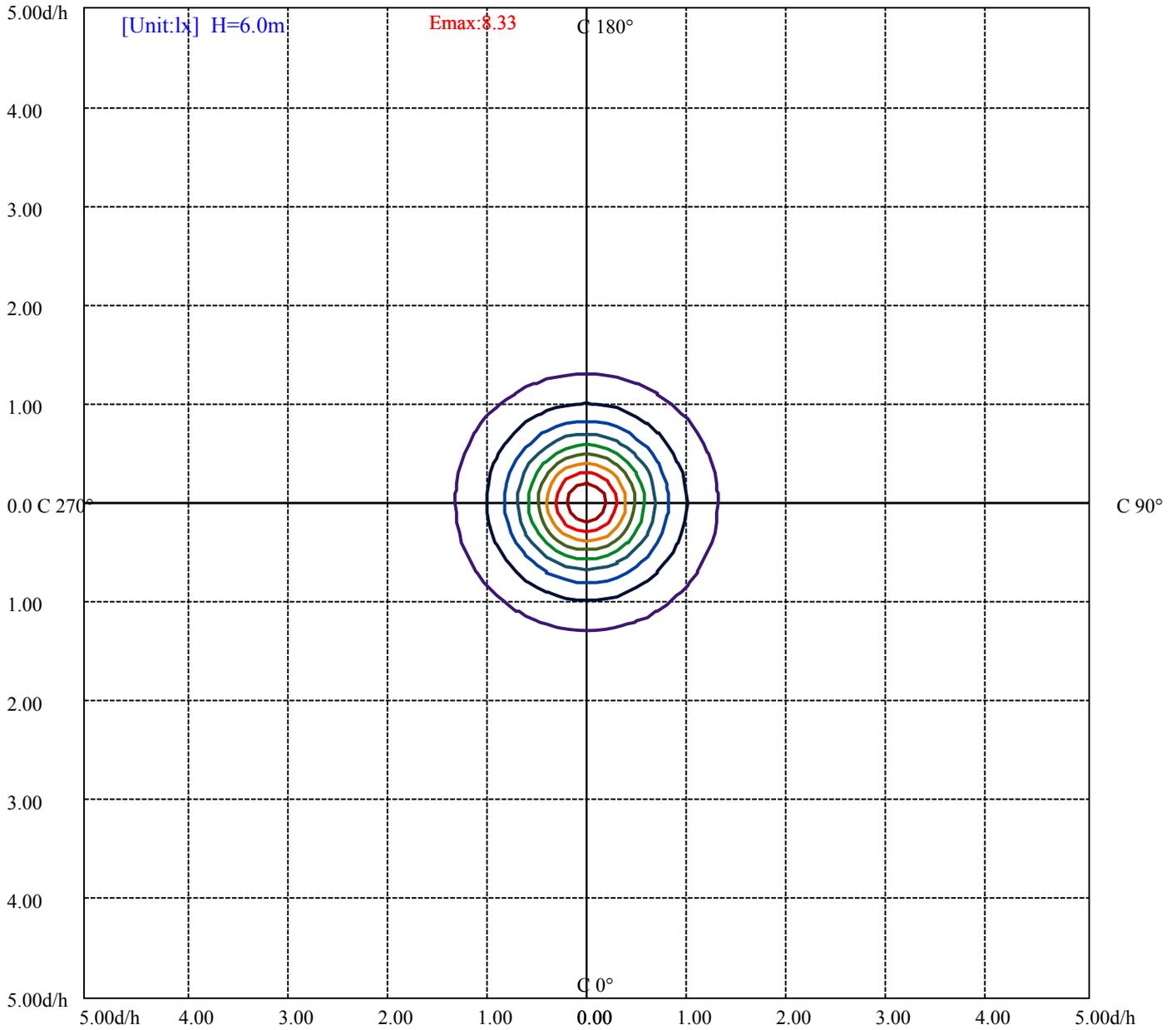
0-10	27.95
10-20	78.16
20-30	114.29
30-40	131.52
40-50	129.06
50-60	107.82
60-70	71.13
70-80	26.74
80-90	2.13
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C0/C180: —
C90/C270: —



Max , Ave Beam angle of C120plane98.88



- (10%Emax) 0.8325
- (20%Emax) 1.665
- (30%Emax) 2.4975
- (40%Emax) 3.33
- (50%Emax) 4.1625
- (60%Emax) 4.995
- (70%Emax) 5.8275
- (80%Emax) 6.66
- (90%Emax) 7.4925

Intensity data(cd)

C/γ(°)	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
0.0	299.70	298.90	294.11	293.71	287.71	282.12	277.32	269.33	264.14
5.0	299.70	294.51	294.11	292.91	288.11	282.52	277.72	270.13	263.34
10.0	299.70	296.90	294.90	290.51	288.11	281.72	276.12	269.33	262.54
15.0	299.70	296.90	293.31	291.31	287.71	280.92	275.72	270.93	264.54
20.0	299.70	296.90	295.70	290.91	287.71	283.32	278.92	272.13	262.54
25.0	299.70	296.10	296.10	291.31	288.51	283.72	276.92	270.93	264.54
30.0	299.70	296.50	292.91	290.11	288.51	284.52	276.92	270.53	262.54
35.0	299.70	296.90	296.50	292.91	286.91	283.32	277.72	271.33	264.54
40.0	299.70	296.90	294.51	293.71	287.31	283.32	278.92	271.73	263.74
45.0	299.70	297.70	294.11	292.91	288.11	283.72	277.72	272.93	264.14
50.0	299.70	296.10	294.90	290.91	286.11	281.72	277.32	273.73	264.14
55.0	299.70	296.90	294.90	290.51	288.11	283.72	279.72	272.53	264.93
60.0	299.70	297.30	294.11	291.31	287.31	282.92	279.32	275.32	267.33
65.0	299.70	296.50	296.10	292.91	292.11	283.72	278.52	272.93	264.54
70.0	299.70	296.90	293.31	291.71	289.31	283.32	278.52	272.53	266.53
75.0	299.70	295.30	297.30	291.31	288.51	285.31	278.92	274.53	265.33
80.0	299.70	297.30	295.30	292.11	290.11	284.52	279.32	274.92	268.53
85.0	299.70	296.50	297.30	294.11	290.51	283.72	280.92	274.13	267.73
90.0	299.70	297.30	295.70	293.31	290.51	284.12	279.32	274.92	266.93
95.0	299.70	298.10	296.50	294.51	289.71	284.52	281.32	274.53	266.53
100.0	299.70	296.90	295.70	291.71	290.11	284.91	276.92	275.72	268.93
105.0	299.70	297.30	293.31	292.91	290.11	286.51	280.52	274.92	266.93
110.0	299.70	297.30	296.50	295.70	290.11	284.52	282.12	274.13	266.93
115.0	299.70	297.30	292.91	293.31	286.11	286.11	279.32	275.32	267.33
120.0	299.70	300.50	297.70	295.30	287.31	284.91	280.52	274.92	268.13
125.0	299.70	296.10	297.70	291.31	290.91	283.72	280.12	274.92	270.13
130.0	299.70	298.90	296.10	294.11	288.11	285.31	280.92	276.92	268.53
135.0	299.70	297.70	298.10	295.30	290.91	285.71	281.72	274.53	267.33
140.0	299.70	298.10	300.50	294.51	290.51	284.52	280.92	274.13	268.53
145.0	299.70	298.50	296.90	294.11	288.11	284.52	280.52	273.73	268.53
150.0	299.70	298.50	295.70	293.71	289.71	285.71	279.32	273.33	267.33
155.0	299.70	298.50	296.90	292.91	293.31	286.11	278.92	274.13	267.33
160.0	299.70	299.70	295.30	292.91	289.71	283.72	278.92	272.93	267.33
165.0	299.70	298.50	296.10	291.71	291.31	284.12	280.52	273.73	268.53
170.0	299.70	299.30	296.90	293.31	288.51	284.52	279.32	272.13	266.13
175.0	299.70	298.50	295.30	294.51	289.31	283.72	277.32	273.73	266.53
180.0	299.70	298.10	294.51	293.31	286.91	283.72	278.12	271.73	265.33
185.0	299.70	298.50	296.90	291.71	287.71	284.52	278.12	272.13	266.93
190.0	299.70	296.10	295.70	292.11	287.71	284.12	279.32	271.73	262.54
195.0	299.70	298.50	297.70	292.51	290.11	284.12	276.92	270.93	264.93
200.0	299.70	297.30	297.30	291.31	286.91	282.12	276.92	272.13	264.14
205.0	299.70	297.70	296.50	290.51	286.51	282.92	278.12	271.33	262.54
210.0	299.70	298.50	296.10	291.71	289.71	283.32	276.52	268.53	262.14
215.0	299.70	298.50	296.10	291.31	287.31	283.32	274.53	270.13	263.34
220.0	299.70	299.30	296.10	291.31	288.51	281.72	276.92	268.93	260.54
225.0	299.70	298.10	296.90	290.51	286.91	282.52	277.32	270.13	262.14
230.0	299.70	298.50	295.70	290.11	284.12	283.32	275.32	269.73	262.54
235.0	299.70	299.30	293.71	292.11	286.11	281.72	276.12	268.93	261.74
240.0	299.70	298.10	294.11	291.71	287.31	282.12	276.12	269.73	261.74
245.0	299.70	297.70	294.11	291.31	286.51	280.92	276.52	268.93	261.74
250.0	299.70	297.30	292.51	291.71	287.31	279.72	276.52	268.13	260.94
255.0	299.70	298.10	293.31	290.11	284.91	280.52	276.52	268.13	260.54
260.0	299.70	297.70	293.71	289.31	285.71	280.92	274.92	268.13	261.34
265.0	299.70	299.30	294.90	290.51	284.91	282.12	274.92	266.13	258.14
270.0	299.70	296.50	293.31	289.71	285.71	281.32	274.13	266.93	261.34
275.0	299.70	297.30	294.11	292.11	288.11	279.72	275.72	268.53	261.34
280.0	299.70	298.50	294.51	287.71	286.11	280.12	274.92	266.53	262.14
285.0	299.70	297.70	294.51	291.31	286.51	280.92	276.52	266.93	258.94

Ten-Lighting Technology Co.Ltd Ten-Lighting Technology Co.Ltd LED Downlights

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Intensity data(cd)									
C/γ(°)	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
290.0	299.70	298.50	292.51	290.11	282.92	279.72	274.13	268.53	260.94
295.0	299.70	297.30	296.90	292.11	286.51	281.72	274.92	268.13	260.14
300.0	299.70	296.90	293.71	290.91	284.12	282.12	274.13	266.53	262.54
305.0	299.70	296.10	295.70	288.91	284.91	281.72	275.72	270.53	262.54
310.0	299.70	297.70	292.91	291.31	287.71	281.32	275.32	268.53	260.54
315.0	299.70	298.10	294.51	289.71	284.91	282.52	276.12	268.53	261.74
320.0	299.70	298.10	294.11	290.51	285.71	281.32	276.12	267.33	261.74
325.0	299.70	298.90	292.51	292.11	287.31	282.12	276.12	268.93	263.34
330.0	299.70	298.10	294.11	291.71	285.71	280.92	274.13	269.73	260.94
335.0	299.70	295.70	293.31	291.71	285.71	280.92	275.72	270.13	260.54
340.0	299.70	298.10	294.51	290.11	287.31	282.52	276.52	270.13	262.14
345.0	299.70	297.70	293.71	290.91	288.51	282.12	275.32	269.73	264.14
350.0	299.70	297.70	294.90	290.91	288.91	283.32	276.12	271.33	263.74
355.0	299.70	295.70	293.71	290.91	288.91	282.92	275.32	268.53	263.74
360.0	299.70	298.90	294.11	293.71	287.71	282.12	277.32	269.33	264.14

Intensity data(cd)

C/γ(°)	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5
0.0	254.15	248.15	239.36	228.97	217.78	208.99	199.00	189.41	178.22
5.0	253.75	247.35	237.76	230.57	220.18	210.19	199.40	188.21	179.42
10.0	255.34	246.15	240.56	230.57	220.58	210.59	200.60	188.61	178.62
15.0	256.14	248.15	239.76	230.97	220.58	210.19	199.40	190.21	178.62
20.0	257.34	248.15	239.76	230.97	220.58	210.59	199.40	188.21	179.42
25.0	257.34	250.95	238.16	229.77	220.98	211.39	199.80	189.41	178.22
30.0	256.54	248.15	240.16	229.77	220.18	211.39	200.60	189.41	179.82
35.0	256.54	249.35	239.76	229.77	220.58	212.19	201.40	190.61	179.82
40.0	258.14	250.55	240.96	232.57	221.78	212.19	201.80	190.21	179.82
45.0	259.34	250.55	240.96	231.77	220.98	212.99	202.20	190.61	179.82
50.0	256.94	251.35	243.36	232.57	221.78	212.19	202.20	191.41	179.82
55.0	259.74	248.55	240.96	229.77	222.58	214.98	203.00	191.41	180.22
60.0	258.94	250.95	240.96	232.97	223.78	211.79	202.60	193.01	181.82
65.0	258.94	251.35	241.36	236.96	224.58	213.79	203.40	192.61	180.62
70.0	259.74	251.35	242.96	233.77	224.58	215.38	204.20	193.01	181.02
75.0	259.34	252.15	243.76	233.77	224.18	214.59	204.20	194.21	180.62
80.0	261.74	251.75	242.56	235.36	224.97	214.98	202.60	193.41	180.62
85.0	260.54	252.55	243.36	231.37	226.17	212.19	207.39	193.01	181.02
90.0	260.14	251.75	244.56	234.96	225.37	213.39	204.60	193.81	182.62
95.0	260.14	252.15	244.95	233.77	225.77	215.38	205.39	193.01	182.62
100.0	262.14	253.35	244.56	235.36	226.17	216.58	205.39	195.00	183.42
105.0	261.74	252.55	243.76	236.16	225.37	215.38	204.60	196.20	183.42
110.0	260.14	254.55	245.35	232.97	226.97	217.78	205.39	193.81	183.82
115.0	259.34	252.55	245.75	236.16	226.97	216.58	207.39	195.40	185.01
120.0	261.74	254.15	243.36	234.96	225.77	216.18	207.39	193.81	184.22
125.0	261.74	250.95	244.16	233.37	226.17	216.18	206.99	193.41	184.62
130.0	262.54	252.55	244.16	233.77	225.37	217.38	204.20	196.20	184.22
135.0	262.14	253.35	244.56	232.97	225.77	216.58	204.99	192.61	184.22
140.0	261.34	254.15	241.76	233.77	226.17	214.59	205.39	194.61	183.02
145.0	260.94	252.15	242.56	235.76	224.58	215.78	202.60	193.41	181.82
150.0	259.34	251.75	244.16	233.77	225.37	214.59	204.99	194.21	183.02
155.0	258.94	250.55	242.16	233.77	222.98	215.78	204.20	192.61	181.42
160.0	259.74	251.35	242.56	232.17	221.78	212.19	203.00	193.01	181.82
165.0	259.34	250.15	242.56	232.17	223.78	213.39	203.40	193.01	180.62
170.0	259.34	250.55	241.36	232.57	221.78	213.79	201.40	191.41	179.82
175.0	257.34	250.15	240.96	231.77	222.18	210.59	203.00	189.81	179.82
180.0	256.14	247.35	240.56	228.97	220.18	210.59	201.00	191.41	178.62
185.0	257.34	250.55	239.36	230.17	221.78	210.99	201.00	188.61	178.22
190.0	257.34	246.15	239.36	231.37	219.78	209.39	199.00	190.61	178.22
195.0	254.55	249.75	237.76	230.57	219.38	210.19	198.20	188.21	175.82
200.0	257.34	247.35	238.56	227.77	217.38	208.19	198.20	188.61	176.62
205.0	255.34	246.55	237.76	228.57	218.58	207.39	197.00	186.61	175.82
210.0	254.15	246.55	236.96	227.77	218.58	206.59	197.00	186.21	175.42
215.0	254.55	244.56	237.36	225.77	216.58	207.79	196.20	185.41	173.83
220.0	254.55	244.56	236.16	225.37	217.38	206.99	194.61	186.21	175.42
225.0	255.74	244.16	236.56	226.17	217.78	206.59	195.80	184.22	174.63
230.0	252.95	246.15	236.56	226.17	216.18	206.19	195.40	185.01	174.23
235.0	252.15	246.55	238.16	226.97	215.78	206.19	196.20	185.41	174.63
240.0	253.35	246.55	235.36	225.77	216.18	206.19	195.00	184.62	173.43
245.0	253.75	244.56	234.57	225.77	213.39	206.19	194.61	184.22	173.83
250.0	253.35	243.76	236.56	224.97	214.59	204.99	195.00	182.62	173.83
255.0	252.55	243.76	236.16	225.77	214.98	203.80	195.40	185.01	173.83
260.0	252.95	243.36	233.77	225.77	214.59	203.80	195.00	183.82	175.02
265.0	252.55	243.76	232.97	226.17	217.38	203.00	195.00	185.41	174.23
270.0	253.35	243.36	235.76	224.97	216.18	204.20	194.61	183.82	173.03
275.0	252.15	244.56	235.36	224.97	214.98	204.20	194.61	186.21	174.23
280.0	253.35	243.76	236.16	224.58	215.78	206.19	195.00	185.01	175.02
285.0	254.55	245.35	234.96	226.57	215.78	204.99	195.40	185.01	175.02

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Intensity data(cd)									
C/γ(°)	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5
290.0	252.95	244.16	235.76	226.97	216.58	207.79	196.20	186.21	175.42
295.0	252.95	245.35	234.57	227.37	215.78	205.79	197.40	185.01	175.02
300.0	253.75	245.75	234.57	226.97	217.38	206.99	196.60	186.21	174.63
305.0	253.75	245.35	235.36	227.37	218.58	207.39	197.40	185.41	175.42
310.0	252.15	243.76	235.76	226.97	216.98	207.39	197.40	186.21	176.22
315.0	253.35	244.16	238.16	228.17	218.98	204.99	197.80	187.01	177.02
320.0	253.75	245.35	237.36	227.77	218.58	208.19	197.40	187.01	176.62
325.0	254.15	246.15	236.96	228.97	217.78	209.39	196.60	185.81	177.02
330.0	255.34	246.95	237.76	227.77	218.18	210.99	197.40	187.01	176.22
335.0	254.94	248.55	237.76	228.57	218.18	208.99	199.80	188.61	177.02
340.0	255.74	248.55	236.96	227.37	217.38	208.99	199.00	186.21	176.62
345.0	255.74	246.55	235.76	229.37	218.58	210.59	199.00	187.41	177.42
350.0	255.34	245.35	239.36	228.97	218.58	210.59	199.00	188.61	177.42
355.0	256.14	247.35	237.76	229.77	218.58	207.39	199.40	188.21	177.42
360.0	254.15	248.15	239.36	228.97	217.78	208.99	199.00	189.41	178.22

Intensity data(cd)

C/γ(°)	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0
0.0	169.83	156.64	144.26	134.27	121.88	110.29	99.90	87.51	76.72
5.0	167.83	156.24	145.05	133.87	121.48	111.49	100.30	87.91	77.12
10.0	168.23	156.24	144.66	133.87	121.88	111.49	99.10	88.71	76.32
15.0	167.83	157.04	146.25	134.27	122.68	111.09	99.10	88.31	75.92
20.0	168.63	157.04	146.25	133.87	123.08	111.49	99.50	88.31	77.12
25.0	167.43	157.44	146.65	134.67	123.08	110.69	100.70	88.31	77.12
30.0	169.03	157.84	147.45	134.27	123.08	111.49	100.30	88.31	76.32
35.0	169.03	157.44	146.25	135.46	123.08	111.89	100.70	86.71	75.92
40.0	169.03	157.44	147.45	133.87	123.48	111.09	99.50	86.71	74.73
45.0	169.83	157.04	146.65	133.87	122.28	110.69	97.50	86.31	73.93
50.0	170.23	158.24	146.25	134.27	122.28	109.49	97.10	85.91	72.73
55.0	167.03	158.64	147.05	133.87	120.68	109.49	96.70	84.32	71.93
60.0	169.83	158.24	145.85	133.47	120.68	109.09	95.90	83.92	71.13
65.0	169.03	159.44	145.45	133.07	120.28	107.09	95.90	82.72	69.93
70.0	170.23	157.44	145.45	132.67	119.48	107.09	94.31	81.52	68.73
75.0	171.03	157.04	145.45	132.67	119.88	107.49	94.71	81.12	68.33
80.0	170.63	158.24	144.66	132.67	118.68	107.09	93.11	81.52	67.93
85.0	168.63	157.44	146.65	131.87	119.08	106.69	93.51	80.32	67.53
90.0	171.43	157.44	146.25	133.07	120.28	106.69	93.91	80.32	67.93
95.0	170.63	157.04	145.45	133.07	119.88	107.09	94.31	81.92	67.53
100.0	170.63	158.64	145.45	133.07	121.08	107.89	94.71	81.12	68.33
105.0	170.63	159.44	146.25	133.47	121.48	108.29	95.10	81.92	69.13
110.0	172.63	159.84	146.65	135.46	121.48	108.69	97.10	83.52	70.33
115.0	171.83	160.64	148.25	135.06	123.08	109.09	96.70	83.92	71.93
120.0	174.63	160.24	148.65	137.06	123.08	110.69	97.90	85.51	73.13
125.0	173.83	161.44	149.05	137.06	124.28	111.49	99.10	86.31	73.53
130.0	172.63	161.04	148.65	136.66	124.28	112.29	99.50	87.51	74.73
135.0	173.03	161.04	149.85	137.46	126.27	113.09	99.10	87.51	75.12
140.0	171.83	160.24	149.05	138.66	126.27	113.49	101.90	88.71	76.32
145.0	172.23	160.64	149.85	137.06	125.07	113.49	101.10	89.11	77.12
150.0	172.63	160.64	148.25	136.66	125.47	112.29	101.50	89.51	77.92
155.0	170.23	159.84	147.85	135.46	124.68	113.49	101.10	89.91	77.52
160.0	170.63	159.84	147.05	135.86	123.48	112.69	100.70	89.91	76.72
165.0	169.83	158.64	147.85	134.67	124.68	111.89	100.70	88.71	76.72
170.0	169.43	157.04	147.45	133.87	123.08	111.49	99.50	87.51	76.32
175.0	168.23	158.24	144.66	133.87	123.88	111.09	99.10	87.51	75.92
180.0	167.43	155.44	144.66	133.87	122.28	110.29	99.10	87.91	75.52
185.0	167.43	158.24	145.45	133.07	121.08	109.89	98.30	87.11	75.12
190.0	165.83	156.24	143.86	132.67	120.68	109.09	96.70	86.31	74.33
195.0	167.03	153.85	143.86	131.87	120.28	108.69	97.10	85.51	75.12
200.0	166.23	154.25	142.66	131.87	119.48	107.09	97.10	85.91	73.93
205.0	167.03	152.65	142.26	131.07	119.08	108.29	97.10	84.72	73.13
210.0	165.43	152.65	142.26	131.47	119.88	107.89	95.10	83.92	72.73
215.0	163.84	152.65	141.86	130.67	117.88	107.89	95.90	83.92	72.73
220.0	162.64	151.05	141.06	130.27	117.48	107.49	95.50	84.32	72.33
225.0	162.64	153.45	140.66	130.27	117.48	107.09	95.50	82.72	71.13
230.0	162.24	153.05	140.26	129.47	118.68	106.29	93.51	82.72	69.93
235.0	164.24	150.65	140.66	130.27	117.48	105.89	92.71	81.92	68.33
240.0	161.84	152.25	140.66	129.47	116.68	104.70	91.91	79.52	68.33
245.0	162.64	153.05	140.66	128.27	117.88	104.70	92.31	79.92	67.13
250.0	161.84	150.65	138.26	127.87	117.48	103.50	91.11	78.32	66.33
255.0	163.44	152.65	139.86	128.67	114.69	103.10	91.51	77.92	65.13
260.0	161.84	150.65	141.06	127.87	115.88	103.50	90.31	77.52	63.94
265.0	162.24	151.85	140.26	127.47	115.88	103.10	90.71	77.92	64.34
270.0	162.64	152.25	141.46	127.87	115.88	103.10	91.11	77.52	63.94
275.0	164.24	150.65	141.86	127.87	115.08	103.50	90.71	76.32	63.94
280.0	164.24	153.05	140.26	128.67	116.68	103.50	90.71	77.52	64.74
285.0	163.44	153.85	140.66	129.47	115.88	105.09	91.51	78.72	64.74

Intensity data(cd)

C/γ(°)	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0
290.0	163.84	153.05	141.06	129.47	118.28	104.30	92.71	79.52	66.33
295.0	163.84	153.45	142.26	130.27	118.28	105.49	93.11	80.32	67.53
300.0	165.43	152.65	142.66	131.07	117.48	107.09	94.71	81.92	68.73
305.0	165.43	153.45	144.26	131.07	119.88	107.49	94.31	82.72	69.93
310.0	165.43	154.65	143.06	131.47	120.28	108.29	95.90	83.12	71.53
315.0	165.03	155.44	143.86	132.27	119.88	109.09	97.10	84.72	71.93
320.0	166.63	155.04	142.26	133.07	120.28	109.09	97.90	85.91	73.13
325.0	165.83	155.44	143.86	131.87	121.08	109.09	97.90	86.31	72.73
330.0	166.23	155.84	143.86	131.47	121.48	110.29	98.30	86.31	74.73
335.0	167.43	154.65	144.66	132.27	121.08	110.29	98.70	86.31	75.12
340.0	166.63	155.84	145.05	133.07	121.48	110.69	98.70	86.31	75.92
345.0	167.43	157.04	144.26	132.67	121.88	109.89	99.50	86.31	74.73
350.0	166.63	155.84	143.86	133.07	122.28	109.49	98.70	87.51	75.52
355.0	167.03	156.24	143.46	132.67	122.68	110.29	98.70	87.51	75.52
360.0	169.83	156.64	144.26	134.27	121.88	110.29	99.90	87.51	76.72

Intensity data(cd)

C/γ(°)	67.5	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5
0.0	63.54	52.35	40.36	29.57	19.18	10.79	4.40	1.60	0.80
5.0	64.74	52.35	40.76	29.57	19.58	10.79	4.40	1.60	0.80
10.0	64.74	52.35	40.76	29.97	19.58	10.79	4.40	1.60	0.80
15.0	64.34	52.75	41.16	29.97	19.98	10.79	4.40	1.60	0.80
20.0	64.34	52.75	41.16	29.97	19.58	10.79	4.40	1.60	0.80
25.0	64.34	52.35	40.76	29.17	19.18	10.39	4.00	1.60	0.80
30.0	64.34	51.95	40.76	28.77	18.78	9.99	4.00	1.60	0.80
35.0	63.94	50.75	39.56	27.57	17.98	9.19	3.60	1.20	0.80
40.0	61.54	50.35	38.36	27.17	16.78	8.79	3.20	1.20	0.80
45.0	61.54	49.15	37.56	25.97	15.98	7.99	2.80	1.20	0.40
50.0	60.34	48.35	36.36	25.17	15.18	7.19	2.40	1.20	0.40
55.0	59.14	46.75	35.16	23.98	13.99	6.39	2.40	0.80	0.40
60.0	58.34	45.55	33.17	22.78	13.19	5.99	2.00	0.80	0.40
65.0	57.94	44.36	32.37	21.58	12.39	5.19	2.00	0.80	0.40
70.0	55.94	43.56	31.57	20.38	11.19	4.40	1.60	0.80	0.40
75.0	55.94	43.16	30.37	19.98	10.79	4.00	1.60	0.80	0.40
80.0	54.75	41.96	30.37	19.18	10.39	4.00	1.60	0.80	0.40
85.0	55.14	41.96	29.57	18.78	9.99	3.60	1.60	0.80	0.40
90.0	54.75	41.16	29.57	18.38	9.99	3.60	1.60	0.80	0.40
95.0	55.14	42.36	29.57	19.18	9.99	3.60	1.60	0.80	0.40
100.0	55.54	42.36	29.97	19.18	10.39	4.00	1.60	0.80	0.40
105.0	55.54	43.56	31.17	19.98	10.79	4.00	1.60	0.80	0.40
110.0	56.74	43.96	31.57	20.78	11.59	4.80	2.00	0.80	0.40
115.0	57.94	45.15	32.77	21.58	12.39	5.19	2.00	0.80	0.40
120.0	59.54	47.15	34.37	22.78	13.19	5.99	2.00	0.80	0.40
125.0	61.54	47.95	35.96	23.98	14.39	6.79	2.40	0.80	0.40
130.0	61.54	49.55	37.16	25.57	15.18	7.19	2.40	1.20	0.40
135.0	62.34	50.35	38.36	26.77	15.98	7.99	2.80	1.20	0.80
140.0	63.94	51.95	39.56	27.97	17.58	8.79	3.20	1.20	0.80
145.0	65.13	52.35	40.36	28.77	17.98	9.59	3.60	1.20	0.80
150.0	64.74	53.15	41.16	29.57	18.78	9.99	4.00	1.60	0.80
155.0	65.93	53.15	41.56	29.97	19.18	10.39	4.40	1.60	0.80
160.0	65.53	53.95	41.56	30.37	19.58	10.79	4.40	1.60	0.80
165.0	65.53	53.15	41.56	30.37	19.98	10.79	4.40	1.60	0.80
170.0	64.34	52.75	41.96	29.97	19.58	10.79	4.40	1.60	0.80
175.0	64.74	52.75	40.76	29.97	19.18	10.79	4.40	1.60	0.80
180.0	64.34	52.35	41.16	29.57	19.18	10.79	4.40	1.60	0.80
185.0	63.14	52.35	40.76	29.17	19.18	10.39	4.40	1.60	0.80
190.0	63.14	51.15	40.36	28.77	19.18	10.39	4.40	1.60	0.80
195.0	62.34	51.55	39.96	28.77	18.78	10.39	4.00	1.60	0.80
200.0	61.94	50.75	39.56	28.37	18.38	9.99	4.00	1.60	0.80
205.0	62.74	50.75	39.56	27.97	17.58	9.59	3.60	1.60	0.80
210.0	61.54	50.35	38.76	27.17	17.18	9.19	3.20	1.60	0.80
215.0	60.74	49.15	37.56	26.37	15.98	8.39	3.20	1.20	0.80
220.0	59.94	47.95	35.96	25.17	15.18	7.59	2.40	1.20	0.80
225.0	58.74	46.75	34.77	23.98	14.39	6.79	2.40	1.20	0.80
230.0	57.94	45.15	33.97	22.38	13.19	5.99	2.00	0.80	0.80
235.0	56.74	43.96	31.97	21.18	11.99	5.19	1.60	0.80	0.40
240.0	55.14	42.76	30.37	19.98	10.79	4.40	1.60	0.80	0.40
245.0	53.55	41.56	29.57	18.78	9.99	3.60	1.60	0.80	0.40
250.0	52.75	40.36	28.77	17.58	9.19	3.20	1.20	0.80	0.40
255.0	51.95	39.16	27.57	17.18	8.39	2.80	1.20	0.80	0.40
260.0	51.55	38.36	27.17	16.38	7.99	2.80	1.20	0.80	0.40
265.0	51.15	37.96	26.37	15.98	7.59	2.80	1.20	0.80	0.40
270.0	50.75	37.96	25.97	15.98	7.59	2.80	1.20	0.80	0.40
275.0	50.75	38.36	25.97	15.98	7.59	2.80	1.20	0.80	0.40
280.0	51.55	38.36	26.37	16.38	8.39	2.80	1.20	0.80	0.40
285.0	52.35	39.16	27.17	16.78	8.79	3.20	1.20	0.80	0.40

Intensity data(cd) Page: 14 Total:16

C/γ(°)	67.5	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5
290.0	53.15	39.96	27.97	17.98	9.19	3.60	1.60	0.80	0.40
295.0	54.75	41.16	29.57	18.78	9.99	4.00	1.60	0.80	0.40
300.0	55.94	43.16	30.77	19.98	11.19	4.80	1.60	0.80	0.40
305.0	56.74	44.36	32.37	21.18	11.99	5.59	2.00	0.80	0.40
310.0	59.14	46.75	34.37	22.78	13.19	5.99	2.00	0.80	0.80
315.0	59.94	47.15	35.16	23.98	14.39	6.79	2.40	1.20	0.80
320.0	60.74	48.35	35.96	25.17	15.58	7.59	2.80	1.20	0.80
325.0	62.34	49.55	37.96	26.77	16.38	8.39	3.20	1.20	0.80
330.0	62.74	50.35	38.76	27.17	17.18	9.19	3.60	1.20	0.80
335.0	63.54	50.75	39.16	27.97	17.98	9.59	3.60	1.60	0.80
340.0	63.14	51.15	39.96	28.77	18.78	9.99	4.00	1.60	0.80
345.0	63.54	51.55	39.96	28.77	18.78	10.39	4.00	1.60	0.80
350.0	63.14	51.55	39.56	29.17	19.18	10.39	4.00	1.60	0.80
355.0	63.94	51.95	40.36	29.17	19.18	10.39	4.00	1.60	0.80
360.0	63.54	52.35	40.36	29.57	19.18	10.79	4.40	1.60	0.80

Intensity data(cd)

C/γ(°)	90.0
0.0	0.40
5.0	0.40
10.0	0.40
15.0	0.40
20.0	0.40
25.0	0.40
30.0	0.40
35.0	0.40
40.0	0.40
45.0	0.40
50.0	0.40
55.0	0.40
60.0	0.40
65.0	0.40
70.0	0.40
75.0	0.40
80.0	0.40
85.0	0.40
90.0	0.40
95.0	0.40
100.0	0.40
105.0	0.40
110.0	0.40
115.0	0.40
120.0	0.40
125.0	0.40
130.0	0.40
135.0	0.40
140.0	0.40
145.0	0.40
150.0	0.40
155.0	0.40
160.0	0.40
165.0	0.40
170.0	0.40
175.0	0.40
180.0	0.40
185.0	0.40
190.0	0.40
195.0	0.40
200.0	0.40
205.0	0.40
210.0	0.40
215.0	0.40
220.0	0.40
225.0	0.40
230.0	0.40
235.0	0.40
240.0	0.40
245.0	0.40
250.0	0.40
255.0	0.40
260.0	0.40
265.0	0.40
270.0	0.40
275.0	0.40
280.0	0.40
285.0	0.40

Intensity data(cd)

Page: 16 Total:16

C/γ(°)	90.0
290.0	0.40
295.0	0.40
300.0	0.40
305.0	0.40
310.0	0.40
315.0	0.40
320.0	0.40
325.0	0.40
330.0	0.80
335.0	0.40
340.0	0.40
345.0	0.40
350.0	0.40
355.0	0.40
360.0	0.40