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Ten-Lighting Technology Co.Ltd

LumCAT: LED Downlights

Luminaire: D015-S21W

Report No: 18-0555-02

Test No: 18-0555-02

LampCAT: LED

Lamp flux(lm)

Number of Lamps: 1

Length(mm): 180

Phm Type: C

Voltage(V): 220.0300

Current(A): 0.1690

Power (W): 13.6700

PF: 0.3680

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

Width(mm): 180

Height(mm): 53

Photometric Results

Lumens(lm): 1129.19

Lumens(lm)/Power(W): 82.60

Central intensity(cd): 487.912

Maximum intensity(cd): 488.711

Angle of maximum intensity: $C=0.0 \gamma=2.5$

Beam Angle(50%Imax): [C0/180]Left=47.9 Right=47.9

[C90/270]Left=48.0 Right=48.0

Field angle(10%Imax): [C0/180]Left=75.5 Right=75.7

[C90/270]Left=74.6 Right=74.9

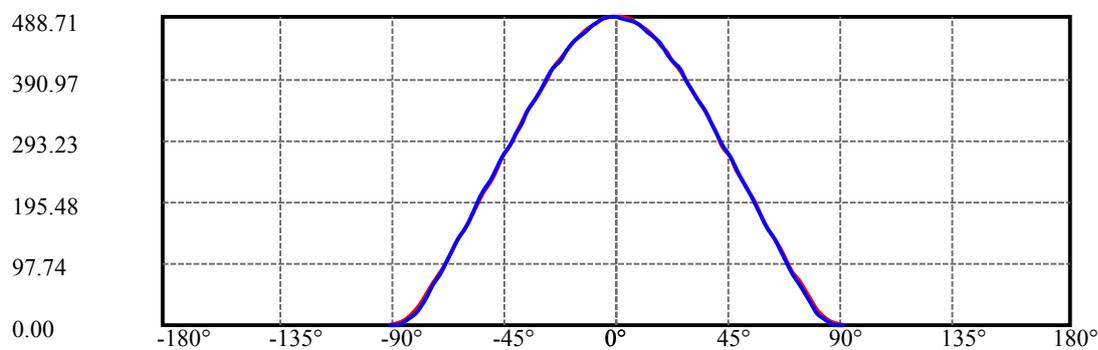
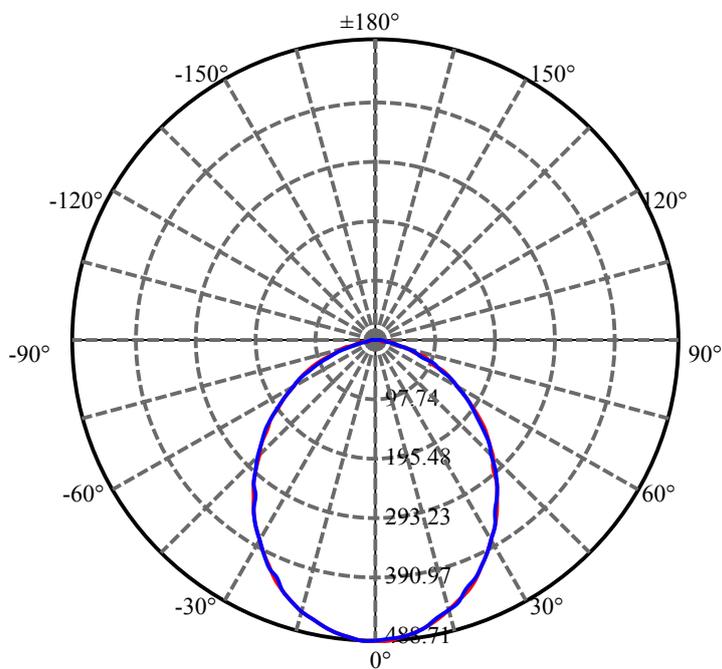
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	487.912	.000	.000	.000%	.000%
2.5	486.907	2.915	2.915	.258%	.258%
5.0	483.721	8.701	11.616	.771%	1.029%
7.5	478.976	14.365	25.982	1.272%	2.301%
10.0	473.066	19.851	45.833	1.758%	4.059%
12.5	465.179	25.089	70.922	2.222%	6.281%
15.0	456.293	30.021	100.942	2.659%	8.939%
17.5	445.332	34.582	135.524	3.063%	12.002%
20.0	433.194	38.707	174.231	3.428%	15.430%
22.5	419.824	42.377	216.608	3.753%	19.183%
25.0	405.505	45.561	262.169	4.035%	23.217%
27.5	389.927	48.222	310.390	4.270%	27.488%
30.0	373.465	50.329	360.719	4.457%	31.945%
32.5	356.898	51.934	412.653	4.599%	36.544%
35.0	339.377	53.022	465.674	4.696%	41.240%
37.5	321.378	53.554	519.228	4.743%	45.982%
40.0	303.330	53.596	572.824	4.746%	50.729%
42.5	284.820	53.154	625.977	4.707%	55.436%
45.0	266.361	52.243	678.220	4.627%	60.062%
47.5	247.752	50.904	729.124	4.508%	64.570%
50.0	229.226	49.154	778.278	4.353%	68.923%
52.5	210.523	47.008	825.285	4.163%	73.086%
55.0	192.280	44.525	869.810	3.943%	77.029%
57.5	173.632	41.702	911.512	3.693%	80.722%
60.0	155.306	38.545	950.056	3.413%	84.136%
62.5	137.096	35.138	985.194	3.112%	87.248%
65.0	118.831	31.462	1016.656	2.786%	90.034%
67.5	101.071	27.589	1044.245	2.443%	92.477%
70.0	83.544	23.584	1067.829	2.089%	94.566%
72.5	66.656	19.495	1087.324	1.726%	96.292%
75.0	50.472	15.413	1102.737	1.365%	97.657%
77.5	35.259	11.414	1114.151	1.011%	98.668%
80.0	21.662	7.652	1121.803	.678%	99.346%
82.5	10.867	4.407	1126.209	.390%	99.736%
85.0	3.802	1.999	1128.208	.177%	99.913%
87.5	1.293	.697	1128.905	.062%	99.975%
90.0	.799	.287	1129.192	.025%	100.000%

ZONAL LUMEN SUMMARY

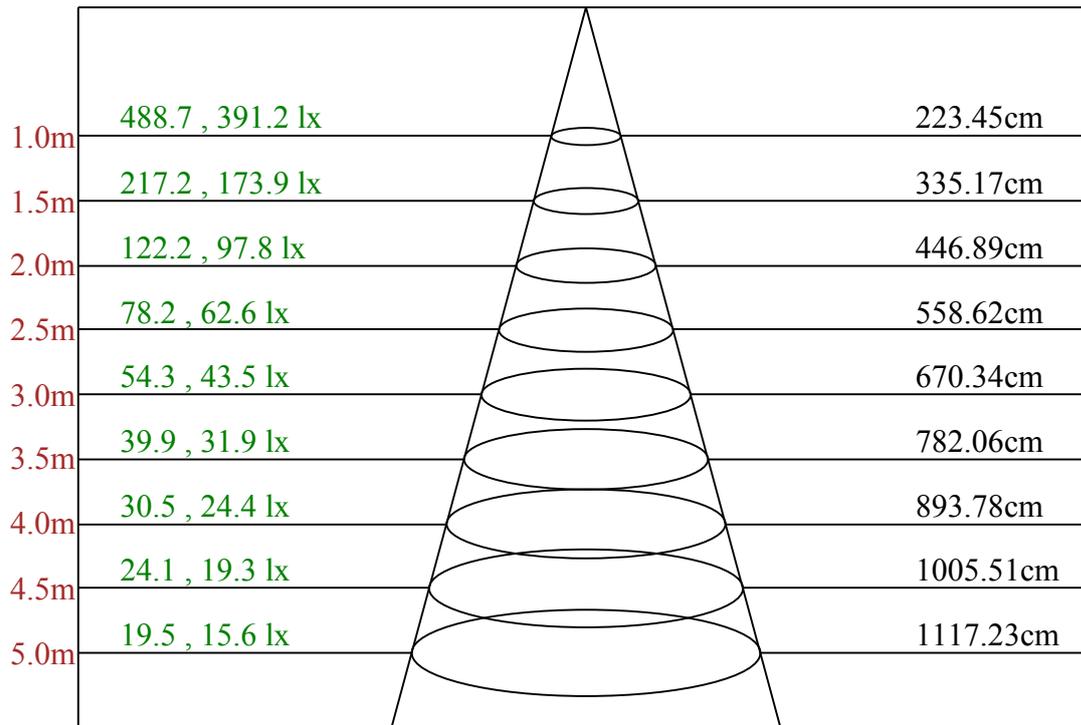
Zone	Lumens	%Fixt
0-30	360.72	31.94%
0-40	572.82	50.73%
0-60	950.06	84.14%
0-90	1128.91	99.97%
0-120	1128.91	99.97%
0-180	1129.19	100.00%
60-90	217.39	19.25%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-57.01	903.35	80.00%

ZONAL LUMEN SUMMARY

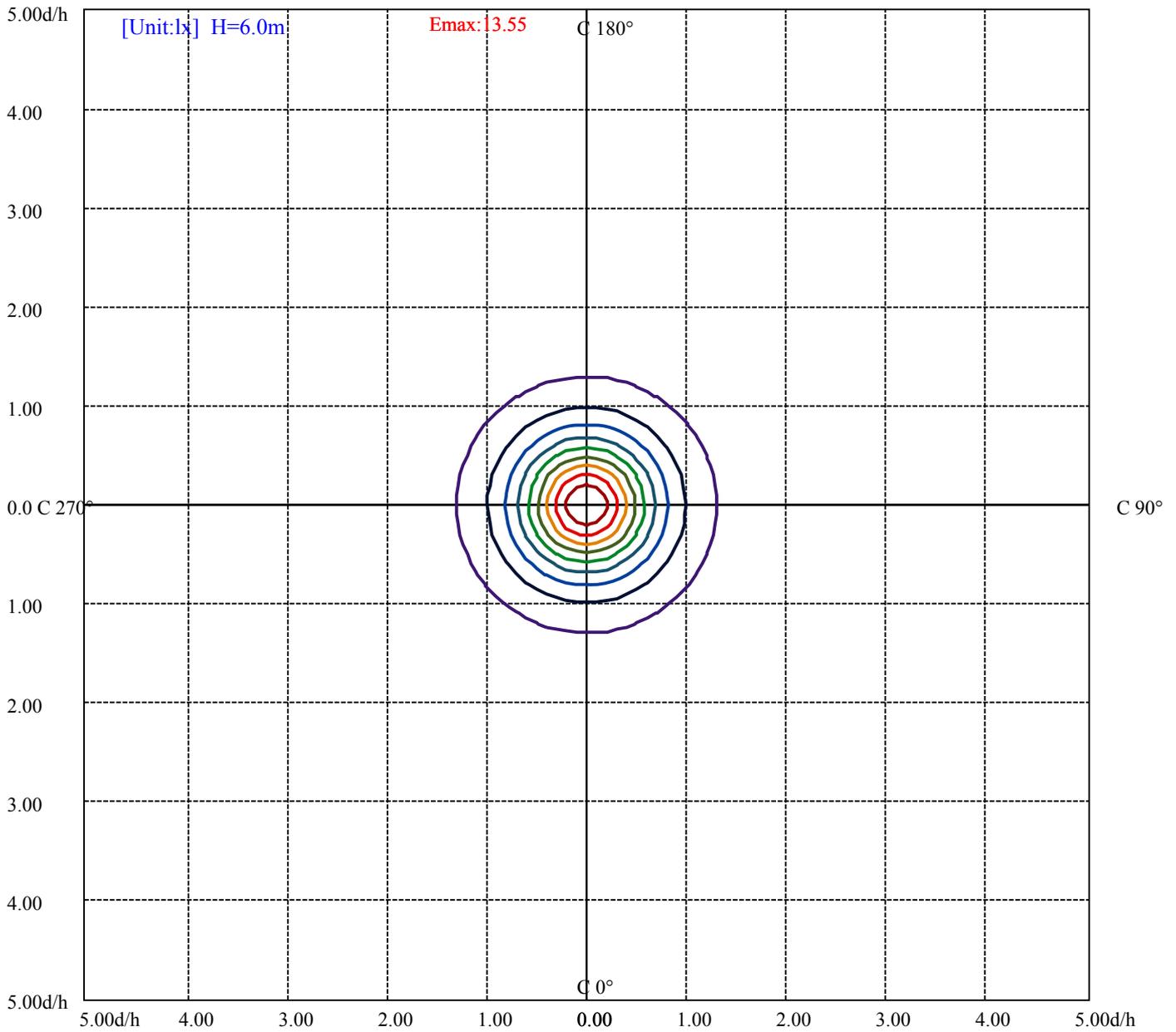
0-10	45.83
10-20	128.40
20-30	186.49
30-40	212.10
40-50	205.45
50-60	171.78
60-70	117.77
70-80	53.97
80-90	7.10
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C0/C180: —
 C90/C270: —



Max , Ave Beam angle of C0plane96.34



- (10%Emax) 1.355311
- (20%Emax) 2.710622
- (30%Emax) 4.065944
- (40%Emax) 5.42125
- (50%Emax) 6.776556
- (60%Emax) 8.131862
- (70%Emax) 9.487166
- (80%Emax) 10.84247
- (90%Emax) 12.19781

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	487.91	488.71	484.71	479.52	472.73	466.73	455.14	444.36	432.77
5.0	487.91	486.71	481.52	479.92	475.12	466.33	456.34	445.55	431.17
10.0	487.91	487.51	483.52	479.52	470.33	463.94	456.34	442.76	431.97
15.0	487.91	484.71	484.71	478.72	472.73	467.13	455.54	445.55	433.97
20.0	487.91	486.31	487.51	479.52	473.53	465.13	456.74	445.15	431.97
25.0	487.91	486.31	483.52	480.32	472.33	463.14	455.54	445.55	432.77
30.0	487.91	483.92	483.92	478.72	473.53	465.13	457.54	444.36	432.37
35.0	487.91	488.31	481.92	480.72	473.53	465.93	454.74	443.96	431.97
40.0	487.91	485.11	483.92	479.12	471.53	463.94	453.95	446.75	432.37
45.0	487.91	487.51	482.72	478.72	473.13	465.13	455.54	444.36	431.97
50.0	487.91	486.71	481.92	477.52	471.53	464.73	457.14	445.55	433.17
55.0	487.91	485.11	483.12	479.52	473.53	464.73	455.54	444.75	432.37
60.0	487.91	485.91	483.52	478.32	471.93	465.13	455.14	443.56	430.37
65.0	487.91	487.11	483.52	478.32	473.13	463.54	454.74	444.75	432.77
70.0	487.91	487.51	482.72	478.72	471.93	462.34	455.14	443.16	431.17
75.0	487.91	486.31	483.52	477.52	473.53	466.33	455.54	442.36	431.97
80.0	487.91	487.11	483.92	477.92	472.73	464.73	455.54	445.55	433.57
85.0	487.91	486.31	483.52	479.12	472.73	463.54	454.35	441.56	432.77
90.0	487.91	486.71	483.12	479.52	473.53	463.14	455.94	445.55	431.17
95.0	487.91	485.91	483.92	479.12	473.93	463.94	455.54	447.15	433.97
100.0	487.91	486.71	483.52	477.52	473.53	464.73	455.94	445.15	432.77
105.0	487.91	488.71	482.72	478.32	470.33	463.14	457.14	445.55	433.57
110.0	487.91	487.11	483.12	475.92	471.93	463.94	459.14	446.35	432.37
115.0	487.91	486.71	482.72	478.32	471.53	466.73	458.34	443.56	433.17
120.0	487.91	487.91	483.52	480.32	471.53	464.34	455.14	443.56	433.57
125.0	487.91	486.71	484.71	479.52	473.13	465.53	455.94	444.75	431.57
130.0	487.91	483.12	485.51	477.92	472.73	464.73	455.54	444.75	431.17
135.0	487.91	486.31	483.92	478.72	473.13	465.53	456.74	445.15	432.37
140.0	487.91	487.11	482.72	479.52	471.93	464.34	456.74	445.95	433.97
145.0	487.91	485.91	483.52	477.92	471.93	465.13	456.74	445.95	433.57
150.0	487.91	485.51	484.71	477.12	473.53	465.13	456.74	445.95	433.57
155.0	487.91	487.91	483.52	479.12	473.13	466.33	455.94	445.95	431.57
160.0	487.91	487.51	482.72	477.12	473.53	463.14	455.14	444.36	431.97
165.0	487.91	488.71	482.32	481.12	475.12	462.34	455.54	445.95	434.37
170.0	487.91	488.71	483.12	477.92	473.93	461.94	455.54	442.76	433.17
175.0	487.91	486.31	483.12	480.32	473.13	465.53	454.35	444.75	432.77
180.0	487.91	487.91	484.32	479.52	473.13	466.33	456.74	446.75	433.17
185.0	487.91	487.11	483.52	479.92	473.13	465.93	456.34	446.75	433.97
190.0	487.91	486.71	483.92	479.92	472.33	464.73	456.34	446.35	430.77
195.0	487.91	487.11	483.12	477.52	472.73	465.93	456.34	446.75	433.17
200.0	487.91	487.91	483.92	478.32	473.13	465.93	456.74	447.15	435.56
205.0	487.91	487.11	484.32	477.92	473.13	465.93	456.34	443.96	436.36
210.0	487.91	487.51	483.52	481.12	472.33	466.33	457.54	444.36	435.96
215.0	487.91	487.91	485.11	478.32	473.13	466.73	457.94	445.95	434.37
220.0	487.91	487.11	485.91	479.52	473.93	465.93	456.74	444.75	432.77
225.0	487.91	487.51	482.32	477.92	475.52	464.34	457.94	445.15	433.57
230.0	487.91	485.11	483.92	479.52	475.52	464.34	455.94	445.95	435.16
235.0	487.91	488.31	483.92	478.72	473.93	466.33	456.34	445.95	434.37
240.0	487.91	485.51	481.92	477.92	475.12	466.33	455.94	443.96	434.76
245.0	487.91	488.31	483.52	477.92	471.53	466.33	457.14	445.55	431.97
250.0	487.91	487.91	482.32	479.92	473.53	467.93	455.14	445.95	433.17
255.0	487.91	487.91	485.91	479.12	473.13	463.14	457.94	444.75	433.57
260.0	487.91	487.51	486.31	479.52	474.33	465.53	458.74	444.36	433.97
265.0	487.91	486.31	483.92	477.92	474.72	467.53	459.14	447.55	433.97
270.0	487.91	488.71	484.32	479.52	473.13	465.53	456.74	447.55	434.76
275.0	487.91	487.91	484.71	478.72	474.33	465.53	456.74	446.75	433.97
280.0	487.91	487.91	484.32	479.92	472.73	467.13	457.14	445.55	434.76
285.0	487.91	486.71	482.72	479.92	472.73	465.93	457.54	444.36	433.97

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	487.91	484.32	483.52	479.12	473.53	468.33	455.54	445.95	433.97
295.0	487.91	485.51	483.92	480.32	474.33	463.94	457.14	447.55	433.97
300.0	487.91	486.31	483.52	477.92	474.72	464.34	458.34	447.55	433.57
305.0	487.91	485.91	482.32	479.52	473.53	465.93	456.34	447.15	432.37
310.0	487.91	487.11	483.52	478.32	473.53	465.13	453.95	444.75	433.97
315.0	487.91	487.11	484.71	479.92	471.93	465.53	457.14	443.56	434.37
320.0	487.91	487.91	483.52	479.12	472.73	464.34	455.54	445.55	433.17
325.0	487.91	488.31	483.52	479.12	470.73	465.53	456.34	445.15	435.16
330.0	487.91	487.51	483.52	479.12	472.73	464.34	455.94	448.35	433.17
335.0	487.91	487.11	485.91	481.52	473.13	465.13	455.54	446.35	432.77
340.0	487.91	485.11	483.52	478.32	472.33	465.53	456.34	446.35	433.17
345.0	487.91	486.31	484.32	479.92	472.73	465.93	455.54	445.15	433.57
350.0	487.91	488.31	484.71	478.72	473.53	464.73	456.34	446.35	433.57
355.0	487.91	487.51	483.52	479.52	473.13	467.13	456.74	445.15	433.17
360.0	487.91	488.71	484.71	479.52	472.73	466.73	455.14	444.36	432.77

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	419.58	404.79	388.01	372.03	358.04	339.66	321.28	303.70	283.32
5.0	418.78	404.40	389.21	372.03	357.24	339.26	320.48	303.70	284.91
10.0	421.18	405.59	390.41	371.63	357.64	339.26	322.08	302.90	285.31
15.0	417.98	405.99	388.81	372.43	356.04	339.26	321.28	302.10	283.72
20.0	419.98	404.40	389.21	372.43	355.24	338.86	319.28	302.50	283.72
25.0	419.98	404.79	388.41	373.23	356.84	338.86	321.28	302.10	284.91
30.0	420.38	404.00	390.01	373.63	355.24	338.86	321.28	304.10	284.12
35.0	417.98	405.19	389.61	373.23	353.65	338.46	321.28	303.30	283.32
40.0	419.58	404.79	390.01	373.63	353.65	339.26	321.28	302.50	285.31
45.0	419.18	404.40	390.41	372.03	356.44	339.26	321.68	302.50	283.72
50.0	419.18	405.19	388.41	372.43	357.24	337.26	322.08	303.70	283.32
55.0	417.58	404.79	390.01	373.23	358.04	337.26	320.48	302.90	284.91
60.0	419.18	405.99	389.61	372.43	357.24	337.66	321.28	302.50	283.72
65.0	416.78	404.40	391.21	373.23	356.84	338.06	321.28	302.90	283.32
70.0	419.58	404.00	391.61	373.23	355.64	338.06	319.28	303.70	284.91
75.0	420.38	404.00	389.61	372.43	356.04	338.46	320.48	302.50	284.91
80.0	418.38	404.79	390.81	371.23	357.24	338.06	321.28	302.10	284.52
85.0	419.18	406.79	388.41	374.03	356.44	338.86	321.28	302.90	283.72
90.0	419.18	405.99	388.01	373.23	356.84	338.86	321.28	303.30	284.91
95.0	418.78	404.79	391.21	372.43	357.64	338.46	320.48	302.50	285.71
100.0	420.78	404.40	388.01	373.63	356.84	338.86	321.68	304.89	285.71
105.0	419.98	404.00	389.61	374.03	356.44	338.46	321.68	302.90	286.11
110.0	419.58	405.19	390.41	372.83	358.04	339.26	321.28	303.30	283.72
115.0	417.58	405.19	389.61	373.23	358.04	338.86	321.68	303.30	286.51
120.0	419.18	405.19	389.21	374.43	356.84	339.26	320.88	304.10	284.52
125.0	419.18	405.99	390.01	373.63	356.84	339.66	321.68	303.30	286.91
130.0	418.78	405.19	392.01	373.63	356.04	338.46	321.68	302.90	285.71
135.0	418.78	403.20	389.61	373.63	356.84	339.26	321.68	302.90	283.72
140.0	419.18	404.79	389.61	374.43	357.64	339.66	320.48	302.50	284.12
145.0	421.18	404.40	391.21	374.82	357.64	340.06	321.68	303.30	282.92
150.0	418.78	403.20	391.21	372.03	357.64	339.26	321.28	302.10	285.31
155.0	418.78	404.00	389.61	373.23	356.04	339.26	320.88	302.10	283.72
160.0	419.58	406.39	391.61	374.43	357.64	339.66	321.28	303.30	283.72
165.0	420.78	403.60	388.01	372.03	356.04	339.66	322.48	303.30	284.91
170.0	418.78	404.79	387.61	373.63	357.64	339.66	320.88	304.10	284.52
175.0	417.58	404.40	388.41	372.83	356.84	340.86	320.08	303.70	283.72
180.0	420.78	405.99	388.81	373.63	357.64	339.26	321.28	302.90	285.31
185.0	419.58	405.99	388.81	374.43	357.24	339.26	320.48	302.50	284.91
190.0	420.38	407.19	388.81	373.63	357.24	337.66	321.28	302.50	285.71
195.0	421.58	405.19	388.81	372.83	354.45	339.66	322.48	303.70	283.72
200.0	419.98	406.79	389.61	372.43	355.64	339.66	320.48	302.50	283.72
205.0	419.18	406.79	389.61	373.63	355.64	340.06	320.88	303.30	284.52
210.0	420.78	405.99	390.41	374.03	356.44	340.46	320.88	302.90	283.32
215.0	419.98	405.59	390.81	374.03	356.44	339.66	320.48	303.70	284.91
220.0	419.18	406.39	389.61	374.03	357.24	340.06	320.08	302.90	286.51
225.0	419.18	404.79	390.81	372.43	358.44	338.46	322.08	303.30	284.52
230.0	419.18	407.19	392.01	372.03	358.44	340.06	321.68	304.10	284.12
235.0	419.98	406.79	390.81	375.22	358.04	339.66	322.48	303.70	286.11
240.0	420.38	406.39	390.41	373.63	356.04	338.86	323.28	304.89	285.31
245.0	421.58	403.60	389.21	372.43	357.24	340.06	323.28	303.70	284.52
250.0	421.98	404.40	390.81	375.22	357.64	339.26	320.08	303.70	285.31
255.0	421.18	407.59	391.61	374.43	356.44	340.46	322.08	304.10	284.91
260.0	421.18	406.79	390.81	372.43	356.04	342.06	321.28	304.10	285.71
265.0	420.78	404.40	390.41	373.63	357.24	340.46	322.08	304.50	286.11
270.0	418.78	407.59	391.21	372.03	358.04	339.26	319.28	303.70	285.71
275.0	421.98	405.99	390.81	376.02	357.24	340.86	323.68	304.89	285.71
280.0	419.98	407.19	390.41	374.03	358.84	340.46	322.48	303.70	286.51
285.0	419.18	406.39	392.41	376.02	357.64	340.46	323.28	304.50	284.91

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	418.78	405.59	389.61	375.62	357.64	341.26	322.88	304.50	285.71
295.0	419.98	407.19	389.61	374.43	355.24	340.06	322.48	303.30	285.31
300.0	419.98	407.19	391.21	372.83	357.64	340.46	322.88	304.50	286.51
305.0	421.98	406.79	390.01	375.62	358.84	339.66	323.28	304.10	284.91
310.0	418.38	406.39	389.21	375.22	356.04	340.86	321.68	303.30	284.91
315.0	421.98	407.19	390.41	375.22	358.04	340.06	321.68	304.10	284.91
320.0	421.18	405.99	389.61	373.23	358.44	339.66	322.48	302.50	284.91
325.0	421.98	407.19	391.61	373.63	358.84	339.26	321.28	304.10	286.51
330.0	422.38	406.39	388.81	373.23	355.64	339.26	320.88	304.10	285.31
335.0	419.98	408.39	389.61	375.22	355.24	339.26	321.28	303.70	284.52
340.0	421.18	403.60	390.41	372.43	357.24	337.66	320.48	302.10	285.31
345.0	421.18	405.59	390.01	373.63	356.84	339.66	321.68	304.10	284.91
350.0	420.38	405.99	390.01	373.23	358.04	340.46	319.68	303.30	284.91
355.0	419.98	404.79	388.81	373.23	355.24	339.26	319.68	302.10	284.12
360.0	419.58	404.79	388.01	372.03	358.04	339.66	321.28	303.70	283.32

Intensity data(cd)

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C/γ(°)	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0
0.0	266.53	247.35	229.77	210.59	193.01	174.23	155.44	137.86	120.28
5.0	266.93	247.35	228.17	210.59	193.01	173.43	155.44	137.46	120.28
10.0	266.93	247.35	227.77	211.79	192.61	174.23	155.84	138.26	120.68
15.0	266.13	247.75	228.97	210.99	192.21	174.63	156.24	137.86	119.88
20.0	266.13	247.75	229.37	210.19	192.21	173.03	156.24	138.26	120.28
25.0	266.13	246.15	228.57	210.59	191.81	174.23	155.44	138.26	120.68
30.0	265.33	247.75	228.97	210.99	191.41	174.23	156.24	138.26	121.08
35.0	265.73	247.35	228.97	210.19	191.41	173.83	155.04	138.26	120.28
40.0	266.13	248.15	230.17	210.59	192.21	173.83	155.04	138.26	119.88
45.0	265.73	247.35	230.57	210.59	193.01	174.23	155.44	137.86	119.48
50.0	266.13	248.15	228.57	210.19	192.61	173.83	155.84	137.86	119.88
55.0	265.73	247.35	228.97	209.79	191.81	173.83	155.44	137.46	119.08
60.0	265.73	246.55	228.57	210.99	192.21	173.43	155.44	137.06	117.88
65.0	266.93	247.35	228.97	211.39	192.61	172.63	154.65	136.66	118.28
70.0	267.73	248.55	230.57	210.59	190.61	173.03	154.25	136.26	117.88
75.0	266.13	248.15	229.37	210.59	191.81	173.83	154.65	135.46	117.08
80.0	266.93	247.75	228.57	211.39	191.81	172.63	154.65	135.46	117.08
85.0	266.93	248.15	229.77	210.59	193.41	173.43	154.25	135.46	117.48
90.0	266.13	248.15	229.37	209.79	191.41	173.43	154.65	136.26	117.48
95.0	267.33	249.35	230.97	210.99	191.41	174.23	154.25	135.46	117.48
100.0	267.33	247.35	228.57	210.59	192.21	173.43	154.65	135.86	116.68
105.0	266.93	248.95	229.77	211.39	191.81	173.83	154.65	136.26	117.88
110.0	266.13	248.15	229.37	210.59	191.41	173.43	155.44	136.26	117.88
115.0	267.73	248.15	228.97	210.99	193.81	173.83	155.04	137.06	118.68
120.0	266.53	248.95	229.77	211.39	193.01	174.23	155.84	137.06	119.08
125.0	266.53	248.15	228.57	211.39	193.41	174.23	155.84	138.26	119.48
130.0	266.53	248.55	229.37	210.99	192.21	174.23	155.84	137.46	119.08
135.0	266.93	247.35	230.17	210.59	191.81	173.03	155.84	137.46	119.88
140.0	266.93	247.75	229.77	210.99	193.41	174.23	156.64	137.46	119.88
145.0	265.33	247.75	229.37	210.19	192.21	174.23	155.84	137.86	119.88
150.0	264.93	248.15	227.77	210.19	192.61	173.83	155.04	138.66	119.88
155.0	268.13	246.15	229.37	210.19	193.41	173.83	155.44	137.46	119.08
160.0	265.73	248.55	228.57	209.79	192.21	173.83	156.24	137.06	119.48
165.0	266.53	247.75	228.97	209.79	192.61	173.03	155.44	137.86	119.48
170.0	265.73	247.35	228.97	210.59	192.61	173.83	155.84	137.06	119.88
175.0	268.13	247.35	228.97	209.39	192.61	173.43	154.25	137.86	119.48
180.0	265.73	247.35	228.17	210.59	191.81	173.03	155.04	136.66	119.08
185.0	266.53	247.75	228.97	209.79	192.61	173.03	155.04	137.46	119.48
190.0	265.73	246.55	228.57	209.79	191.81	173.43	155.04	136.26	118.68
195.0	266.13	247.35	228.17	209.79	191.81	173.03	154.65	136.26	119.08
200.0	266.53	247.75	227.37	209.39	191.41	173.83	155.04	136.66	118.28
205.0	266.13	246.15	229.37	210.19	191.81	173.03	155.44	136.26	118.28
210.0	265.73	246.55	229.37	210.19	191.81	172.63	155.44	136.66	118.28
215.0	267.73	246.55	228.57	210.19	191.41	173.83	155.84	137.06	118.68
220.0	266.93	247.35	226.57	209.39	192.21	173.43	155.84	137.06	118.68
225.0	265.33	247.75	230.17	210.59	191.01	173.03	155.04	136.66	118.68
230.0	267.33	248.15	228.57	210.19	191.41	173.03	154.25	136.26	118.28
235.0	264.93	248.95	228.97	209.79	191.81	173.83	154.65	136.66	118.68
240.0	265.73	247.35	229.37	208.99	191.01	173.03	154.65	136.66	118.28
245.0	265.33	246.95	229.77	209.79	192.21	172.63	156.24	136.66	117.88
250.0	265.33	248.15	229.37	210.99	192.21	173.43	155.04	136.66	117.48
255.0	265.73	248.15	230.17	210.59	192.21	173.83	155.44	136.66	117.48
260.0	265.73	248.95	229.77	209.39	192.21	173.43	155.04	135.46	117.88
265.0	266.53	248.15	229.77	210.19	192.21	173.83	155.44	136.26	117.08
270.0	268.13	248.15	229.77	211.39	194.61	173.03	155.04	136.26	117.48
275.0	268.13	248.55	231.37	211.79	193.41	174.23	155.04	136.66	116.68
280.0	264.93	248.95	229.77	212.19	192.61	174.63	156.24	136.26	117.88
285.0	266.13	247.75	230.17	209.79	193.41	174.23	155.04	137.86	117.88

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	267.73	247.35	230.17	210.99	193.41	174.23	155.44	137.06	118.28
295.0	266.93	247.35	228.97	210.99	193.01	174.23	155.44	137.46	118.68
300.0	268.53	248.55	228.97	211.79	193.01	173.83	156.24	137.46	117.88
305.0	267.33	247.75	230.17	212.19	192.61	174.63	155.04	137.46	119.08
310.0	264.14	248.55	228.97	211.39	192.21	174.23	155.44	137.06	118.68
315.0	264.54	248.15	230.17	210.19	192.21	173.03	155.04	137.86	119.08
320.0	265.73	248.55	228.57	211.39	191.81	173.03	155.84	137.46	119.48
325.0	266.93	246.95	228.57	210.19	192.61	173.43	154.65	137.46	119.48
330.0	265.33	246.95	229.77	210.19	191.41	173.43	155.44	137.46	119.08
335.0	267.33	247.35	229.37	210.99	193.01	173.83	155.04	137.46	119.88
340.0	265.33	248.55	229.37	210.59	192.61	173.43	155.44	137.86	119.48
345.0	265.33	246.55	228.97	208.99	192.21	173.43	155.04	137.46	119.48
350.0	266.93	248.15	229.37	210.19	191.41	173.43	155.44	137.46	119.48
355.0	265.73	247.75	229.37	210.19	191.81	173.43	155.44	137.46	119.48
360.0	266.53	247.35	229.77	210.59	193.01	174.23	155.44	137.86	120.28

C/γ(°)	67.5	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5
0.0	102.30	85.11	69.53	53.15	38.36	24.78	13.59	5.59	1.60
5.0	102.70	85.11	69.53	53.15	38.36	24.78	13.59	5.59	1.60
10.0	103.50	85.91	69.13	53.55	38.76	24.78	13.59	5.59	1.60
15.0	102.30	85.91	68.73	53.55	38.76	25.17	13.59	5.59	1.60
20.0	102.70	85.91	69.53	53.55	38.76	25.17	13.59	5.59	1.60
25.0	102.70	85.91	69.13	53.55	38.76	25.17	13.59	5.59	1.60
30.0	103.10	85.91	69.13	53.15	38.36	24.78	13.19	5.19	1.60
35.0	101.90	85.51	68.73	53.55	37.96	24.78	13.19	5.19	1.60
40.0	102.70	85.11	69.13	52.35	37.56	24.38	12.79	4.80	1.60
45.0	101.90	84.72	68.33	52.35	37.16	23.58	12.39	4.40	1.20
50.0	102.30	84.72	67.93	51.55	36.76	23.18	11.59	4.40	1.20
55.0	101.50	83.92	67.13	51.15	35.96	22.38	11.19	4.00	1.20
60.0	101.10	83.52	66.33	50.75	35.16	21.98	10.79	3.60	1.20
65.0	100.70	82.72	66.33	49.95	34.77	20.78	10.39	3.20	1.20
70.0	100.70	82.32	65.53	49.55	33.97	20.38	9.99	2.80	1.20
75.0	99.90	82.32	65.13	48.75	33.57	19.98	9.59	2.80	1.20
80.0	99.90	81.92	64.34	48.35	33.17	19.58	9.59	2.40	1.20
85.0	98.70	81.52	64.34	47.95	32.77	19.18	9.19	2.40	1.20
90.0	99.50	81.12	64.74	48.35	32.37	19.18	9.19	2.40	1.20
95.0	99.10	81.12	63.94	47.55	32.37	19.18	9.19	2.40	1.20
100.0	99.10	81.92	64.34	47.95	32.77	19.18	9.19	2.40	1.20
105.0	99.50	81.52	64.34	47.95	33.17	19.18	9.19	2.40	1.20
110.0	99.50	81.92	65.13	48.35	33.17	19.58	9.59	2.80	1.20
115.0	99.90	82.32	65.53	49.15	33.57	20.38	9.99	3.20	1.20
120.0	100.70	83.12	65.93	49.15	34.37	20.38	9.99	3.20	1.20
125.0	101.10	83.12	66.33	49.95	34.77	21.18	10.39	3.60	1.20
130.0	101.50	83.52	67.13	50.75	35.56	21.58	10.79	4.00	1.20
135.0	101.90	84.32	67.53	51.55	35.96	22.38	11.19	4.00	1.20
140.0	102.30	84.32	67.53	51.55	36.76	22.78	11.59	4.40	1.20
145.0	102.30	85.11	67.93	51.95	36.76	23.18	11.99	4.80	1.20
150.0	102.30	85.51	68.33	52.35	37.16	23.58	12.39	4.80	1.60
155.0	102.70	84.72	68.33	52.35	37.56	23.98	12.39	4.80	1.60
160.0	102.30	84.72	68.33	52.35	37.16	23.98	12.39	4.80	1.60
165.0	101.90	84.72	68.33	51.95	37.16	23.98	12.79	4.80	1.60
170.0	101.90	85.11	67.93	52.35	37.56	23.98	12.79	4.80	1.60
175.0	101.90	85.51	67.93	51.95	37.16	23.58	12.39	4.80	1.60
180.0	101.50	84.32	67.93	51.95	37.16	23.58	12.39	4.80	1.60
185.0	101.10	84.32	67.13	51.95	37.16	23.58	12.39	4.80	1.60
190.0	101.50	84.32	67.53	51.95	37.16	23.58	12.39	4.80	1.20
195.0	101.50	84.72	67.53	51.95	36.76	23.58	11.99	4.40	1.20
200.0	101.10	83.92	67.53	51.55	36.76	23.18	11.99	4.40	1.20
205.0	101.10	83.92	67.53	51.55	36.76	22.78	11.59	4.40	1.20
210.0	101.10	84.32	67.13	51.55	36.36	22.78	11.59	4.00	1.20
215.0	101.10	83.92	67.13	51.15	35.96	22.38	11.19	4.00	1.20
220.0	100.70	83.12	67.13	50.75	35.56	21.58	10.39	3.60	1.20
225.0	100.70	83.52	66.33	50.35	35.16	21.18	9.99	3.60	1.20
230.0	100.70	83.52	66.33	49.15	34.37	20.38	9.59	3.20	1.20
235.0	100.70	82.32	65.53	48.75	33.57	19.98	9.19	2.80	1.20
240.0	100.70	82.32	65.13	48.75	33.17	19.18	8.79	2.40	1.20
245.0	100.30	82.32	64.34	47.95	32.37	18.38	8.39	2.40	1.20
250.0	99.50	81.52	63.54	47.15	31.57	17.98	7.99	2.00	1.20
255.0	99.10	81.12	63.54	46.75	30.77	17.58	7.59	2.00	1.20
260.0	98.70	80.72	63.14	46.35	30.77	17.18	7.59	2.00	0.80
265.0	98.70	81.12	63.54	46.35	30.37	16.78	7.59	2.00	0.80
270.0	98.70	80.72	62.74	46.35	29.97	16.78	7.59	2.00	0.80
275.0	98.70	80.72	63.54	46.35	30.37	17.18	7.59	2.00	0.80
280.0	99.10	80.72	63.54	46.35	30.77	17.18	7.59	2.00	0.80
285.0	99.10	81.12	63.94	47.15	31.57	17.58	7.99	2.00	0.80

Intensity data(cd)

C/γ(°)	67.5	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5
290.0	99.90	81.52	63.94	47.55	31.97	18.38	8.39	2.40	1.20
295.0	100.30	81.52	64.74	48.35	32.37	18.78	8.79	2.40	1.20
300.0	100.30	82.32	65.53	48.75	33.17	19.58	9.19	2.80	1.20
305.0	101.10	83.52	65.93	49.55	33.97	20.38	9.59	3.20	1.20
310.0	101.10	83.52	66.33	49.95	34.77	21.18	9.99	3.60	1.20
315.0	101.50	84.32	66.73	51.15	35.56	21.58	10.79	4.00	1.20
320.0	101.50	84.32	67.53	51.55	35.96	21.98	11.19	4.00	1.20
325.0	102.30	84.32	67.93	51.95	36.36	22.78	11.59	4.40	1.20
330.0	102.30	84.32	67.93	51.95	37.16	23.58	11.99	4.80	1.60
335.0	102.30	84.72	68.33	52.35	37.16	23.98	12.39	4.80	1.60
340.0	101.90	84.72	68.33	52.75	37.96	23.98	12.79	5.19	1.60
345.0	102.70	85.51	68.73	52.75	37.56	23.98	13.19	5.19	1.60
350.0	102.30	85.11	68.73	52.75	37.96	24.38	13.19	5.19	1.60
355.0	102.30	85.11	69.13	53.15	37.96	24.78	13.19	5.19	1.60
360.0	102.30	85.11	69.53	53.15	38.36	24.78	13.59	5.59	1.60

Intensity data(cd)

C/γ(°)	90.0
0.0	0.80
5.0	0.80
10.0	0.80
15.0	0.80
20.0	0.80
25.0	0.80
30.0	0.80
35.0	0.80
40.0	0.80
45.0	0.80
50.0	0.80
55.0	0.80
60.0	0.80
65.0	0.80
70.0	0.80
75.0	0.80
80.0	0.80
85.0	0.80
90.0	0.80
95.0	0.80
100.0	0.80
105.0	0.80
110.0	0.80
115.0	0.80
120.0	0.80
125.0	0.80
130.0	0.80
135.0	0.80
140.0	0.80
145.0	0.80
150.0	0.80
155.0	0.80
160.0	0.80
165.0	0.80
170.0	0.80
175.0	0.80
180.0	0.80
185.0	0.80
190.0	0.80
195.0	0.80
200.0	0.80
205.0	0.80
210.0	0.80
215.0	0.80
220.0	0.80
225.0	0.80
230.0	0.80
235.0	0.80
240.0	0.80
245.0	0.80
250.0	0.80
255.0	0.80
260.0	0.80
265.0	0.80
270.0	0.80
275.0	0.80
280.0	0.80
285.0	0.80

Intensity data(cd)

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