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### Ten-Lighting Technology Co.Ltd

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LumCAT: LED AR111	
Luminaire: AR14-1206B	
Report No: 18-0555-11	Voltage(V): 220.0300
Test No: 18-0555-11	Current(A): 0.1590
LampCAT: LED	Power (W): 12.5000
Lamp flux(lm)	PF: 0.3570
Number of Lamps: 1	Ballast type: Ten-Lighting/YD12-24-500
Length(mm): 113	Width(mm): 113
Phm Type: C	Height(mm): 53

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### Photometric Results

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Lumens(lm): 1444.63  
Lumens(lm)/Power(W): 115.57  
Central intensity(cd): 5129.663  
Maximum intensity(cd): 5203.193  
Angle of maximum intensity:  $C=160.0 \gamma=5.0$   
Beam Angle(50%Imax): [C0/180]Left=15.3 Right=11.1  
                                  [C90/270]Left=11.8 Right=15.0  
Field angle(10%Imax): [C0/180]Left=27.8 Right=23.3  
                                  [C90/270]Left=23.7 Right=27.6

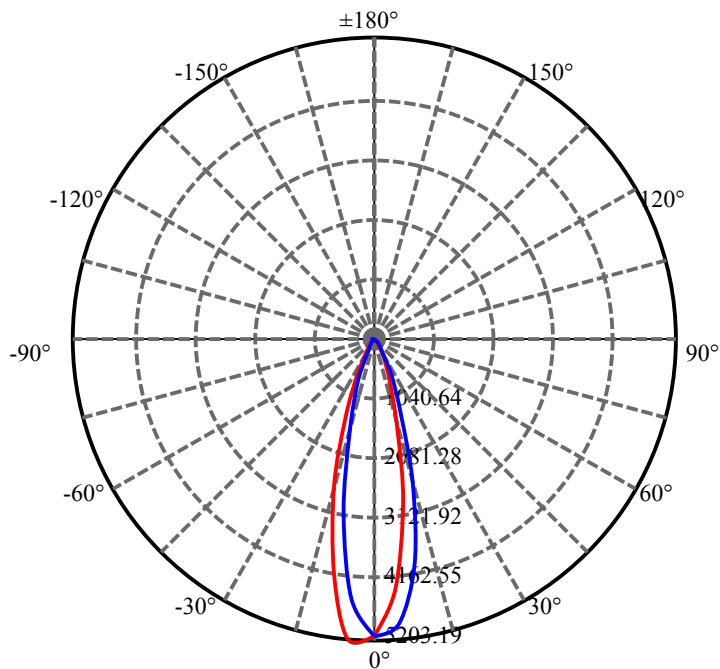
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5129.659	.000	.000	.000%	.000%
5.0	4726.426	117.827	117.827	8.156%	8.156%
10.0	3486.577	293.805	411.632	20.338%	28.494%
15.0	2134.702	333.451	745.082	23.082%	51.576%
20.0	1121.594	268.365	1013.447	18.577%	70.153%
25.0	550.999	175.424	1188.871	12.143%	82.296%
30.0	283.716	105.634	1294.505	7.312%	89.608%
35.0	143.612	62.927	1357.432	4.356%	93.964%
40.0	74.620	36.410	1393.842	2.520%	96.485%
45.0	42.879	21.756	1415.598	1.506%	97.991%
50.0	24.720	13.659	1429.257	.946%	98.936%
55.0	12.954	8.191	1437.449	.567%	99.503%
60.0	6.227	4.434	1441.882	.307%	99.810%
65.0	2.187	2.045	1443.928	.142%	99.952%
70.0	.278	.624	1444.552	.043%	99.995%
75.0	.000	.073	1444.624	.005%	100.000%
80.0	.000	.000	1444.624	.000%	100.000%
85.0	.000	.000	1444.624	.000%	100.000%
90.0	.000	.000	1444.624	.000%	100.000%

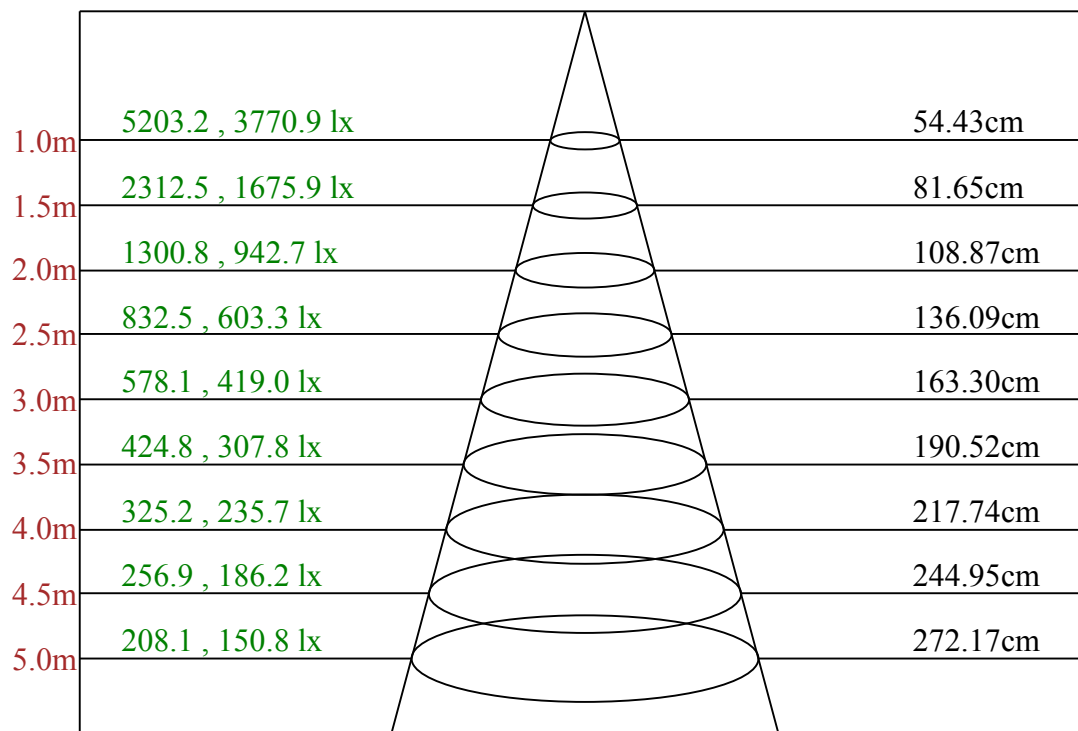
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	1294.51	89.61%
0-40	1393.84	96.48%
0-60	1441.88	99.81%
0-90	1444.62	100.00%
0-120	1444.62	100.00%
0-180	1444.62	100.00%
60-90	7.18	0.50%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-24.05	1155.70	80.00%

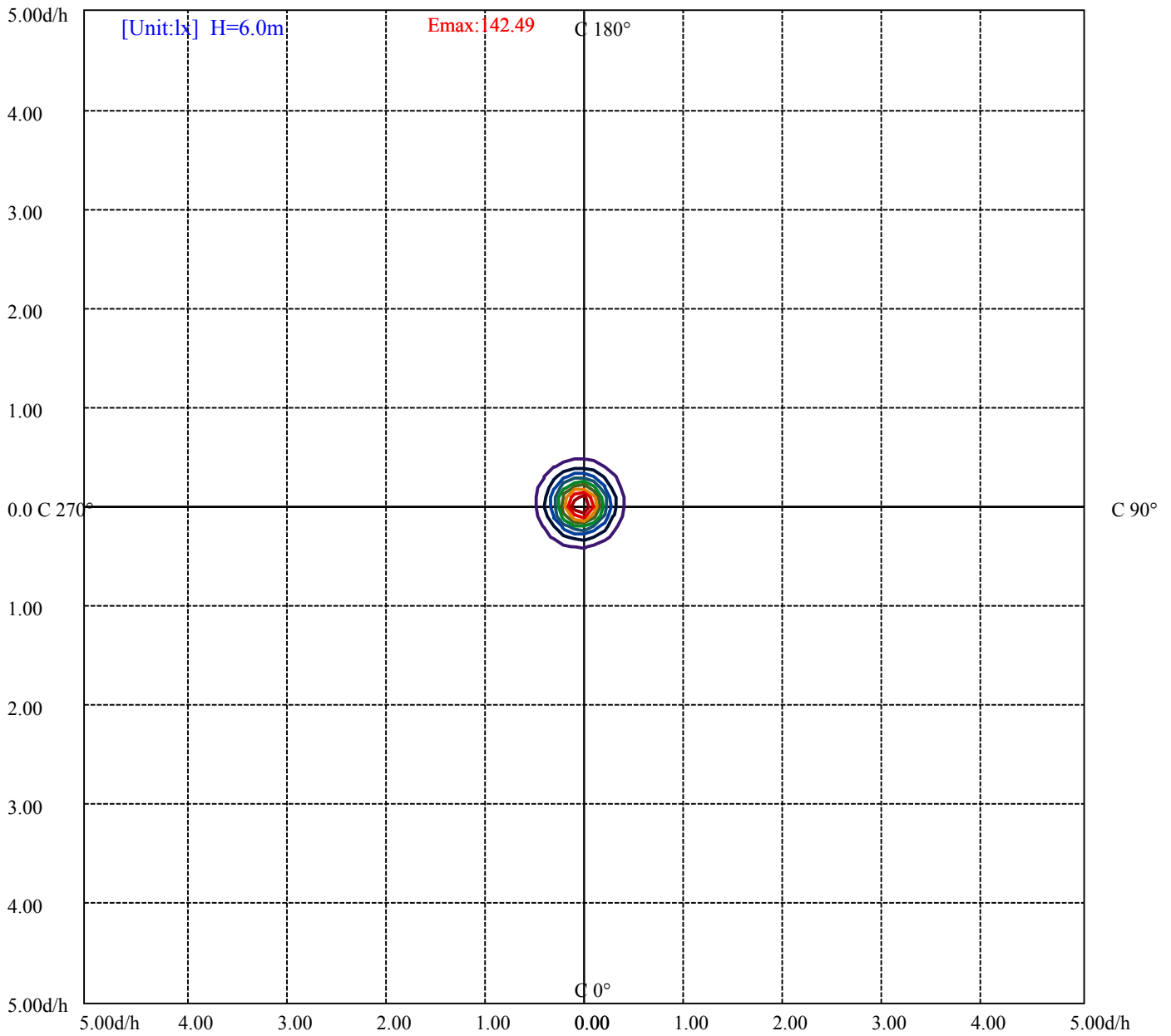
ZONAL LUMEN SUMMARY

0-10	411.63
10-20	601.82
20-30	281.06
30-40	99.34
40-50	35.42
50-60	12.63
60-70	2.67
70-80	0.07
80-90	0.00
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





Max , Ave      Beam angle of C160plane30.39



(10%Emax)	14.24903	
(20%Emax)	28.49806	
(30%Emax)	42.74694	
(40%Emax)	56.99611	
(50%Emax)	71.245	
(60%Emax)	85.49417	
(70%Emax)	99.74306	
(80%Emax)	113.9922	
(90%Emax)	128.2411	

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	5129.66	4309.69	2870.33	1599.60	787.21	382.82	204.99	105.89	59.94
5.0	5129.66	4321.28	2887.51	1630.37	802.40	390.41	206.99	106.29	61.94
10.0	5129.66	4339.66	2921.88	1659.54	823.98	397.60	210.59	107.89	63.54
15.0	5129.66	4362.83	2964.23	1694.30	847.55	408.39	214.98	111.89	63.94
20.0	5129.66	4400.00	3024.97	1741.86	869.13	423.98	225.37	113.09	65.13
25.0	5129.66	4454.34	3081.72	1780.22	900.70	439.96	231.77	115.08	66.33
30.0	5129.66	4483.51	3126.07	1826.97	927.87	457.94	236.96	118.68	67.93
35.0	5129.66	4507.09	3186.81	1878.12	964.63	471.13	244.95	121.88	68.73
40.0	5129.66	4539.46	3261.14	1941.26	992.61	488.71	253.75	127.07	69.53
45.0	5129.66	4579.82	3336.26	1991.61	1033.77	508.69	259.74	130.67	71.13
50.0	5129.66	4620.58	3393.00	2064.33	1080.52	527.87	270.13	135.46	71.93
55.0	5129.66	4658.94	3461.34	2134.66	1122.88	551.85	278.12	138.26	74.33
60.0	5129.66	4697.30	3520.88	2191.41	1161.64	567.03	287.71	141.86	77.52
65.0	5129.66	4742.85	3588.41	2252.95	1190.41	588.61	296.90	145.45	80.32
70.0	5129.66	4801.60	3657.14	2298.50	1231.17	606.99	304.89	148.65	81.92
75.0	5129.66	4841.95	3717.08	2365.23	1277.52	626.97	313.69	156.24	82.72
80.0	5129.66	4874.72	3810.19	2437.16	1319.88	646.15	324.87	162.64	82.72
85.0	5129.66	4910.69	3882.91	2511.09	1356.64	666.93	336.86	168.63	83.92
90.0	5129.66	4938.66	3948.85	2572.23	1401.80	690.91	348.45	175.42	85.51
95.0	5129.66	4969.83	4004.39	2612.19	1448.95	717.28	358.84	178.22	89.51
100.0	5129.66	5001.40	4039.56	2664.13	1490.91	738.86	369.23	184.62	93.11
105.0	5129.66	5025.77	4079.12	2712.49	1520.08	752.85	378.42	191.81	95.90
110.0	5129.66	5062.53	4123.47	2759.24	1545.25	770.43	390.01	196.60	96.30
115.0	5129.66	5116.88	4174.22	2789.61	1574.42	786.41	398.40	200.60	95.90
120.0	5129.66	5165.63	4201.40	2826.37	1599.60	803.20	405.19	205.39	94.71
125.0	5129.66	5173.22	4236.56	2855.54	1613.59	811.99	411.19	209.39	94.71
130.0	5129.66	5172.42	4258.14	2871.13	1625.97	817.58	414.78	212.19	95.90
135.0	5129.66	5174.02	4264.13	2883.91	1634.76	820.78	419.98	215.38	99.10
140.0	5129.66	5186.01	4268.93	2886.31	1637.56	821.58	422.78	215.78	99.90
145.0	5129.66	5193.20	4267.33	2880.72	1629.57	819.18	423.58	214.59	99.90
150.0	5129.66	5190.41	4260.54	2861.94	1616.78	815.18	419.58	211.39	98.70
155.0	5129.66	5202.79	4243.75	2839.16	1602.00	806.39	412.79	206.59	94.71
160.0	5129.66	5203.19	4217.78	2807.19	1580.42	792.81	405.59	200.60	91.11
165.0	5129.66	5191.60	4190.21	2784.81	1548.85	775.22	394.80	196.20	87.51
170.0	5129.66	5196.00	4167.43	2749.25	1516.48	754.05	386.01	190.21	86.31
175.0	5129.66	5195.60	4137.46	2706.09	1484.12	732.47	375.22	185.01	86.71
180.0	5129.66	5183.21	4101.90	2658.94	1449.75	710.49	361.64	177.02	86.71
185.0	5129.66	5154.44	4057.54	2617.38	1412.99	686.91	349.25	170.23	85.51
190.0	5129.66	5108.49	4011.99	2560.24	1368.23	665.73	336.46	165.03	83.52
195.0	5129.66	5069.73	3945.65	2493.90	1325.07	647.35	325.67	159.84	80.32
200.0	5129.66	5039.76	3878.52	2431.17	1295.10	626.57	314.88	156.64	76.72
205.0	5129.66	4998.20	3824.57	2383.22	1257.94	608.19	307.69	151.45	73.93
210.0	5129.66	4961.44	3759.04	2335.66	1215.98	589.41	297.30	145.85	73.53
215.0	5129.66	4929.87	3709.49	2270.93	1170.43	572.63	288.91	141.06	72.33
220.0	5129.66	4902.69	3642.76	2207.39	1128.47	551.85	280.52	136.26	72.73
225.0	5129.66	4863.53	3576.82	2149.05	1101.70	531.87	272.13	132.27	72.73
230.0	5129.66	4825.57	3520.08	2098.70	1070.53	515.48	261.34	128.27	71.13
235.0	5129.66	4792.00	3455.74	2055.54	1035.36	493.11	251.75	126.27	70.73
240.0	5129.66	4744.45	3405.39	1998.80	1000.60	476.72	244.56	125.87	70.33
245.0	5129.66	4705.69	3336.66	1944.45	968.63	461.94	237.36	125.07	69.13
250.0	5129.66	4654.94	3266.73	1897.30	935.46	449.55	233.77	122.68	67.93
255.0	5129.66	4608.59	3211.59	1846.55	905.49	438.36	228.57	119.48	67.53
260.0	5129.66	4574.62	3159.24	1799.40	884.71	425.97	225.77	117.88	66.33
265.0	5129.66	4542.25	3113.68	1753.45	854.35	415.98	222.18	115.88	64.74
270.0	5129.66	4501.90	3060.54	1717.48	832.37	405.59	217.38	114.69	63.94
275.0	5129.66	4463.53	3009.79	1683.52	815.18	394.80	214.59	111.89	63.54
280.0	5129.66	4426.77	2968.23	1647.15	796.80	386.81	208.99	109.09	63.14
285.0	5129.66	4402.00	2933.46	1611.19	782.42	379.62	204.20	107.49	62.34

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
290.0	5129.66	4379.22	2904.69	1590.01	766.83	372.03	201.40	105.89	61.54
295.0	5129.66	4354.04	2874.72	1571.63	750.85	362.84	197.80	104.70	60.34
300.0	5129.66	4327.67	2847.55	1551.65	738.86	358.04	195.00	104.70	58.34
305.0	5129.66	4301.70	2814.38	1531.67	727.67	355.24	191.81	103.10	57.14
310.0	5129.66	4280.52	2792.41	1518.48	724.08	352.85	189.01	102.30	57.54
315.0	5129.66	4273.72	2780.42	1510.89	726.47	352.85	188.21	101.10	57.54
320.0	5129.66	4267.33	2774.82	1508.49	725.67	353.65	189.41	99.50	57.94
325.0	5129.66	4252.54	2770.83	1505.69	727.67	354.84	189.41	99.10	57.94
330.0	5129.66	4244.15	2768.43	1502.10	732.07	358.04	189.41	99.10	57.94
335.0	5129.66	4238.96	2770.03	1505.69	738.46	360.84	191.01	101.10	57.94
340.0	5129.66	4244.55	2774.42	1518.08	743.26	361.64	191.81	102.30	57.14
345.0	5129.66	4267.73	2784.41	1528.47	750.05	364.83	193.41	103.50	56.34
350.0	5129.66	4296.10	2807.19	1552.05	761.24	372.43	196.60	103.10	57.94
355.0	5129.66	4315.28	2844.75	1580.82	772.43	377.62	200.20	104.70	59.14
360.0	5129.66	4309.69	2870.33	1599.60	787.21	382.82	204.99	105.89	59.94

Intensity data(cd)

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	35.16	18.78	10.79	4.40	0.80	0.00	0.00	0.00	0.00
5.0	36.36	19.18	11.19	4.40	0.80	0.00	0.00	0.00	0.00
10.0	37.16	19.58	11.59	4.40	0.80	0.00	0.00	0.00	0.00
15.0	37.56	20.38	11.99	4.80	1.20	0.00	0.00	0.00	0.00
20.0	37.56	22.38	11.99	4.80	1.20	0.00	0.00	0.00	0.00
25.0	38.36	23.18	11.59	5.59	1.60	0.00	0.00	0.00	0.00
30.0	39.56	24.38	11.59	5.99	1.60	0.00	0.00	0.00	0.00
35.0	40.76	24.78	12.39	5.99	2.00	0.00	0.00	0.00	0.00
40.0	41.96	24.78	12.79	5.99	2.00	0.40	0.00	0.00	0.00
45.0	43.96	24.38	12.79	6.39	2.40	0.40	0.00	0.00	0.00
50.0	45.55	25.17	13.19	6.39	2.80	0.40	0.00	0.00	0.00
55.0	45.55	26.77	13.59	7.19	2.80	0.40	0.00	0.00	0.00
60.0	45.15	27.97	13.59	7.19	2.80	0.40	0.00	0.00	0.00
65.0	45.55	28.77	13.59	7.19	2.80	0.40	0.00	0.00	0.00
70.0	45.95	29.17	13.59	7.19	3.20	0.40	0.00	0.00	0.00
75.0	47.95	29.57	13.99	7.19	3.60	0.40	0.00	0.00	0.00
80.0	50.35	29.17	14.39	7.59	3.60	0.40	0.00	0.00	0.00
85.0	51.55	27.97	14.39	7.99	3.20	0.40	0.00	0.00	0.00
90.0	52.35	28.37	14.79	8.39	3.20	0.40	0.00	0.00	0.00
95.0	51.95	29.17	15.18	7.99	3.20	0.40	0.00	0.00	0.00
100.0	50.35	29.57	15.58	7.99	3.60	0.40	0.00	0.00	0.00
105.0	49.15	29.97	16.38	7.99	3.60	0.80	0.00	0.00	0.00
110.0	49.95	29.97	16.78	7.99	4.00	0.80	0.00	0.00	0.00
115.0	52.35	29.97	15.98	8.39	3.60	0.80	0.00	0.00	0.00
120.0	53.55	30.77	15.98	8.79	3.60	0.80	0.00	0.00	0.00
125.0	53.55	30.77	15.58	9.19	3.20	0.80	0.00	0.00	0.00
130.0	53.95	31.17	15.98	9.19	3.20	0.80	0.00	0.00	0.00
135.0	53.55	30.77	15.98	8.79	3.60	0.80	0.00	0.00	0.00
140.0	52.75	30.77	16.78	8.39	4.00	0.80	0.00	0.00	0.00
145.0	51.15	30.77	17.18	8.39	4.00	0.80	0.00	0.00	0.00
150.0	51.15	30.37	16.78	8.39	3.60	0.80	0.00	0.00	0.00
155.0	51.55	29.97	15.98	8.39	3.60	0.80	0.00	0.00	0.00
160.0	51.55	29.57	15.58	8.39	3.20	0.40	0.00	0.00	0.00
165.0	51.15	28.77	15.18	8.79	3.20	0.40	0.00	0.00	0.00
170.0	50.75	28.77	15.18	7.99	3.20	0.40	0.00	0.00	0.00
175.0	48.75	28.77	14.79	7.99	3.60	0.40	0.00	0.00	0.00
180.0	46.75	28.77	14.79	7.59	3.60	0.40	0.00	0.00	0.00
185.0	44.76	28.37	14.79	7.19	3.20	0.40	0.00	0.00	0.00
190.0	44.76	27.97	14.39	7.19	3.20	0.40	0.00	0.00	0.00
195.0	45.15	27.17	13.99	7.19	3.20	0.40	0.00	0.00	0.00
200.0	45.95	26.37	13.59	7.19	2.80	0.40	0.00	0.00	0.00
205.0	45.55	25.17	13.59	7.19	2.80	0.40	0.00	0.00	0.00
210.0	44.36	25.17	13.19	6.79	2.80	0.40	0.00	0.00	0.00
215.0	42.76	25.57	13.19	6.39	2.40	0.40	0.00	0.00	0.00
220.0	41.16	25.57	13.19	5.99	2.00	0.40	0.00	0.00	0.00
225.0	40.36	24.78	12.79	5.99	2.00	0.40	0.00	0.00	0.00
230.0	39.56	24.38	12.79	5.59	2.00	0.40	0.00	0.00	0.00
235.0	39.56	23.18	13.19	5.59	2.00	0.00	0.00	0.00	0.00
240.0	40.36	21.98	13.19	5.19	1.60	0.00	0.00	0.00	0.00
245.0	41.56	21.18	12.79	4.80	1.60	0.00	0.00	0.00	0.00
250.0	40.76	21.18	12.79	4.80	1.60	0.00	0.00	0.00	0.00
255.0	39.96	21.18	11.99	4.80	1.20	0.00	0.00	0.00	0.00
260.0	39.16	21.98	11.19	5.19	1.20	0.00	0.00	0.00	0.00
265.0	38.36	22.78	10.79	5.19	1.20	0.00	0.00	0.00	0.00
270.0	37.56	21.98	10.39	4.80	1.20	0.00	0.00	0.00	0.00
275.0	37.56	21.18	10.79	4.40	0.80	0.00	0.00	0.00	0.00
280.0	37.16	20.78	11.19	4.00	0.80	0.00	0.00	0.00	0.00
285.0	36.76	20.38	11.19	4.00	0.80	0.00	0.00	0.00	0.00

Intensity data(cd)

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
290.0	36.36	19.98	10.79	4.00	0.80	0.00	0.00	0.00	0.00
295.0	35.56	19.58	10.39	4.00	0.80	0.00	0.00	0.00	0.00
300.0	35.56	19.98	9.99	4.40	0.80	0.00	0.00	0.00	0.00
305.0	34.77	20.38	9.59	4.80	0.80	0.00	0.00	0.00	0.00
310.0	34.77	19.58	9.59	4.40	0.80	0.00	0.00	0.00	0.00
315.0	34.37	18.78	9.59	4.40	0.80	0.00	0.00	0.00	0.00
320.0	33.97	18.38	9.99	4.00	0.80	0.00	0.00	0.00	0.00
325.0	33.57	17.98	9.99	4.00	0.80	0.00	0.00	0.00	0.00
330.0	33.17	17.98	9.99	4.00	0.80	0.00	0.00	0.00	0.00
335.0	33.57	18.38	9.59	4.00	0.80	0.00	0.00	0.00	0.00
340.0	33.57	18.78	9.59	4.00	0.80	0.00	0.00	0.00	0.00
345.0	33.97	19.58	9.59	4.40	0.80	0.00	0.00	0.00	0.00
350.0	33.97	19.58	9.59	4.40	0.80	0.00	0.00	0.00	0.00
355.0	34.77	19.18	9.99	4.40	0.80	0.00	0.00	0.00	0.00
360.0	35.16	18.78	10.79	4.40	0.80	0.00	0.00	0.00	0.00

Intensity data(cd)

C/γ(°)	90.0
0.0	0.00
5.0	0.00
10.0	0.00
15.0	0.00
20.0	0.00
25.0	0.00
30.0	0.00
35.0	0.00
40.0	0.00
45.0	0.00
50.0	0.00
55.0	0.00
60.0	0.00
65.0	0.00
70.0	0.00
75.0	0.00
80.0	0.00
85.0	0.00
90.0	0.00
95.0	0.00
100.0	0.00
105.0	0.00
110.0	0.00
115.0	0.00
120.0	0.00
125.0	0.00
130.0	0.00
135.0	0.00
140.0	0.00
145.0	0.00
150.0	0.00
155.0	0.00
160.0	0.00
165.0	0.00
170.0	0.00
175.0	0.00
180.0	0.00
185.0	0.00
190.0	0.00
195.0	0.00
200.0	0.00
205.0	0.00
210.0	0.00
215.0	0.00
220.0	0.00
225.0	0.00
230.0	0.00
235.0	0.00
240.0	0.00
245.0	0.00
250.0	0.00
255.0	0.00
260.0	0.00
265.0	0.00
270.0	0.00
275.0	0.00
280.0	0.00
285.0	0.00

Intensity data(cd)

C/γ(°)	90.0
290.0	0.00
295.0	0.00
300.0	0.00
305.0	0.00
310.0	0.00
315.0	0.00
320.0	0.00
325.0	0.00
330.0	0.00
335.0	0.00
340.0	0.00
345.0	0.00
350.0	0.00
355.0	0.00
360.0	0.00