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Ten-Lighting Technology Co.Ltd

LumCAT: LED AR111	
Luminaire: AR11-0906B	
Report No: 18-0555-12	Voltage(V): 220.0400
Test No: 18-0555-12	Current(A): 0.1570
LampCAT: LED	Power (W): 12.4000
Lamp flux(lm)	PF: 0.3590
Number of Lamps: 1	Ballast type: Ten-Lighting/YD12-60-200
Length(mm): 113	Width(mm): 113
Phm Type: C	Height(mm): 53

Photometric Results

Lumens(lm): 1340.39
Lumens(lm)/Power(W): 108.10
Central intensity(cd): 5276.721
Maximum intensity(cd): 5355.840
Angle of maximum intensity: $C=180.0 \gamma=5.0$
Beam Angle(50%Imax): [C0/180]Left=15.5 Right=10.8
 [C90/270]Left=12.2 Right=13.4
Field angle(10%Imax): [C0/180]Left=26.7 Right=21.7
 [C90/270]Left=23.2 Right=24.3

Equipment: GMS-2000
Temperature(°C): 25.0

Date: 2019/1/7
Humidity(%): 61.0%

Operator: Yi-Fan Liao
Distance(m): 19.99

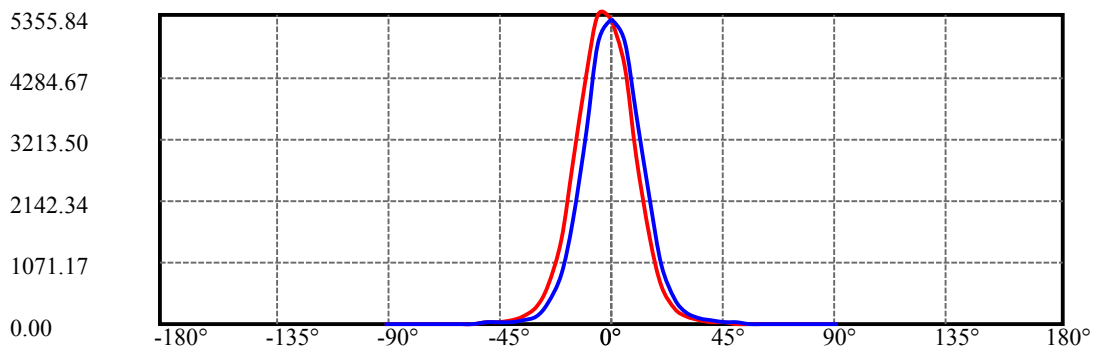
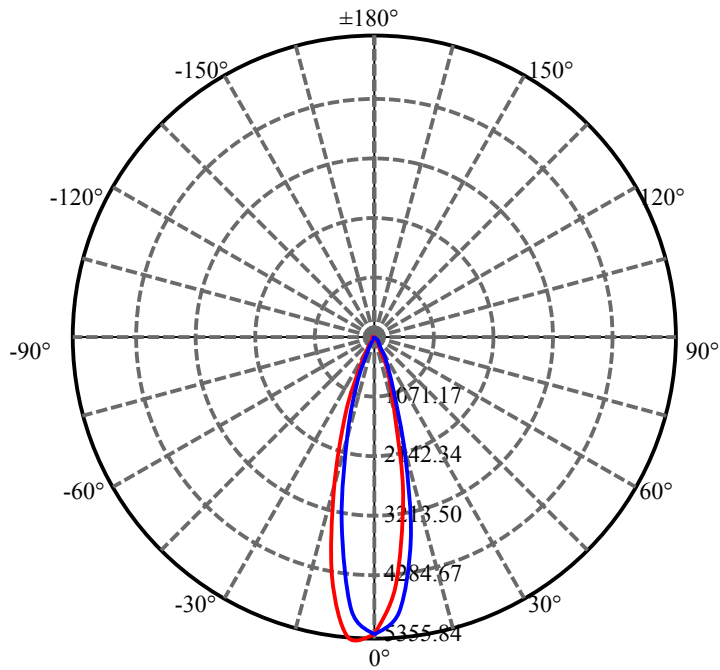
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5276.720	.000	.000	.000%	.000%
5.0	4868.740	121.286	121.286	9.049%	9.049%
10.0	3536.899	300.696	421.982	22.434%	31.482%
15.0	2068.048	332.482	754.464	24.805%	56.287%
20.0	1004.583	253.228	1007.692	18.892%	75.179%
25.0	432.495	150.723	1158.415	11.245%	86.424%
30.0	191.852	79.012	1237.427	5.895%	92.319%
35.0	95.560	42.323	1279.750	3.158%	95.476%
40.0	51.682	24.566	1304.316	1.833%	97.309%
45.0	30.864	15.284	1319.600	1.140%	98.449%
50.0	18.143	9.902	1329.503	.739%	99.188%
55.0	9.413	5.992	1335.494	.447%	99.635%
60.0	4.201	3.147	1338.641	.235%	99.870%
65.0	1.326	1.344	1339.985	.100%	99.970%
70.0	.128	.368	1340.353	.027%	99.997%
75.0	.000	.033	1340.386	.002%	100.000%
80.0	.000	.000	1340.386	.000%	100.000%
85.0	.000	.000	1340.386	.000%	100.000%
90.0	.000	.000	1340.386	.000%	100.000%

ZONAL LUMEN SUMMARY

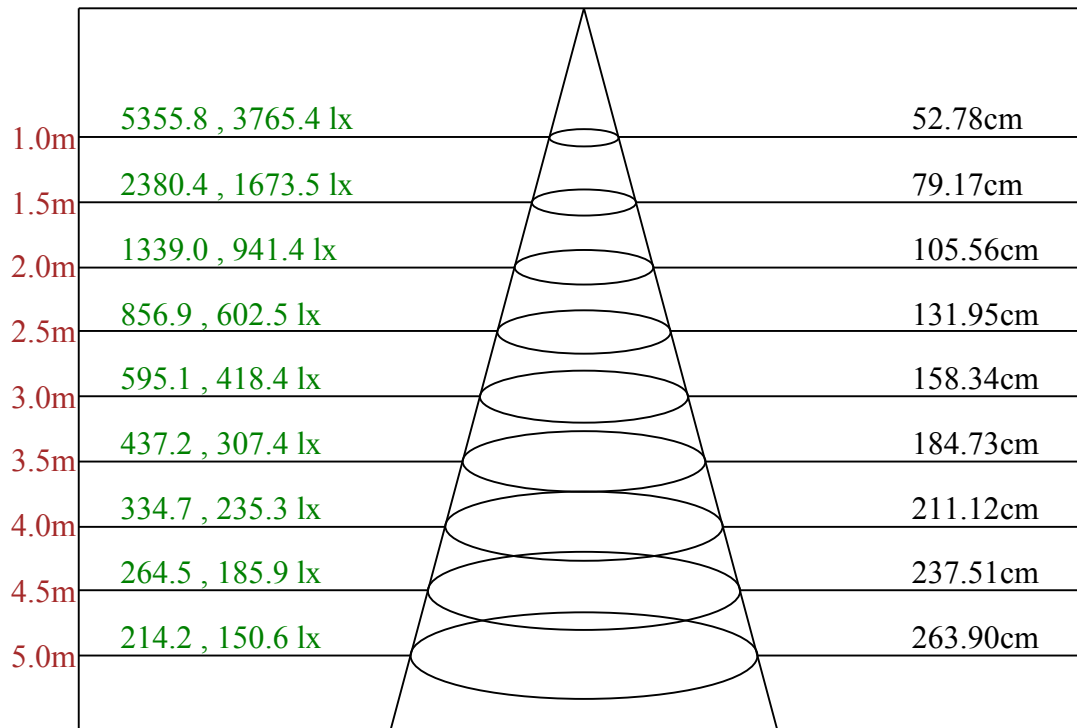
Zone	Lumens	%Fixt
0-30	1237.43	92.32%
0-40	1304.32	97.31%
0-60	1338.64	99.87%
0-90	1340.39	100.00%
0-120	1340.39	100.00%
0-180	1340.39	100.00%
60-90	4.89	0.36%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-22.14	1072.31	80.00%

ZONAL LUMEN SUMMARY

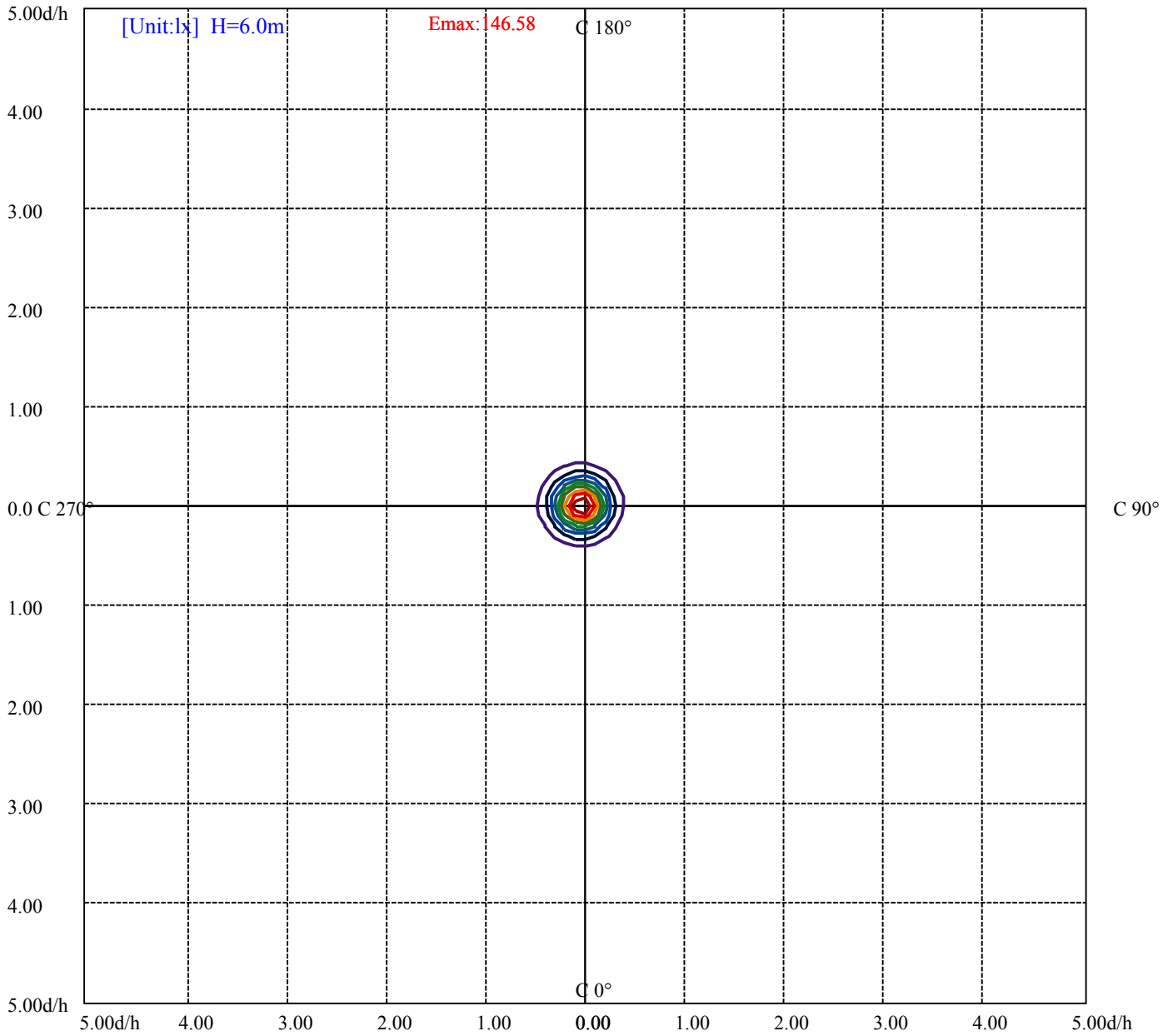
0-10	421.98
10-20	585.71
20-30	229.73
30-40	66.89
40-50	25.19
50-60	9.14
60-70	1.71
70-80	0.03
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C0/C180: —
 C90/C270: —



Max , Ave Beam angle of C180plane29.51



(10%Emax) 14.6575	—
(20%Emax) 29.315	—
(30%Emax) 43.9725	—
(40%Emax) 58.63	—
(50%Emax) 73.28751	—
(60%Emax) 87.945	—
(70%Emax) 102.6025	—
(80%Emax) 117.26	—
(90%Emax) 131.9175	—

Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	5276.72	4452.74	2885.51	1502.90	668.53	271.33	119.88	63.94	37.96
5.0	5276.72	4458.74	2909.49	1515.28	676.92	273.33	120.28	63.94	38.36
10.0	5276.72	4441.16	2914.28	1533.67	692.11	278.12	121.08	64.74	39.16
15.0	5276.72	4473.12	2927.87	1558.84	694.11	282.52	123.08	65.93	39.16
20.0	5276.72	4440.76	2977.82	1581.62	704.10	289.71	126.27	66.73	39.56
25.0	5276.72	4473.12	2996.20	1591.21	724.48	294.51	130.27	67.93	39.56
30.0	5276.72	4484.31	3014.58	1614.38	740.46	304.10	134.27	69.13	40.36
35.0	5276.72	4511.49	3031.37	1641.56	756.04	314.49	139.46	71.13	41.16
40.0	5276.72	4528.67	3074.92	1694.30	768.43	320.48	144.66	73.13	41.56
45.0	5276.72	4541.86	3160.04	1733.87	785.21	332.87	148.65	74.73	42.36
50.0	5276.72	4585.81	3184.81	1751.85	804.00	342.86	153.45	77.52	43.16
55.0	5276.72	4600.20	3243.16	1792.21	832.37	352.85	156.64	79.12	44.76
60.0	5276.72	4704.49	3291.11	1846.55	853.15	362.04	161.04	82.32	46.75
65.0	5276.72	4695.70	3343.05	1901.30	869.13	371.63	165.83	83.52	49.15
70.0	5276.72	4759.24	3421.78	1935.26	903.50	384.02	171.03	85.51	50.35
75.0	5276.72	4803.59	3478.12	2010.79	924.67	396.00	176.22	87.51	51.15
80.0	5276.72	4847.95	3530.47	2045.15	954.25	413.19	183.02	89.91	51.15
85.0	5276.72	4878.32	3594.00	2106.29	988.61	426.77	188.61	95.10	51.95
90.0	5276.72	4893.90	3639.56	2167.43	1022.58	444.75	205.39	97.50	51.55
95.0	5276.72	4929.07	3739.46	2212.59	1071.73	461.94	206.99	100.70	52.75
100.0	5276.72	4993.80	3750.65	2267.33	1111.29	481.92	214.98	105.09	53.55
105.0	5276.72	4987.41	3849.35	2330.47	1149.25	504.30	222.18	108.69	55.94
110.0	5276.72	5024.97	3877.72	2419.18	1198.40	524.28	233.77	115.08	57.94
115.0	5276.72	4996.20	3905.29	2451.95	1234.37	541.06	246.15	119.88	61.14
120.0	5276.72	5031.37	4009.99	2506.29	1267.53	562.24	256.14	123.48	64.74
125.0	5276.72	5098.10	4027.17	2564.23	1303.90	587.81	264.14	128.67	67.93
130.0	5276.72	5102.09	4077.12	2612.19	1350.65	603.00	274.92	133.07	70.33
135.0	5276.72	5168.83	4139.86	2671.33	1374.62	623.78	288.51	138.26	72.33
140.0	5276.72	5198.00	4199.00	2695.30	1422.18	640.96	298.90	144.66	73.53
145.0	5276.72	5219.58	4211.39	2740.46	1436.56	666.93	308.09	149.45	73.53
150.0	5276.72	5238.36	4275.72	2781.22	1470.93	675.32	314.49	153.45	72.33
155.0	5276.72	5250.75	4283.31	2788.01	1483.72	681.72	318.08	156.64	71.93
160.0	5276.72	5293.10	4313.68	2821.58	1491.31	689.71	319.28	157.44	71.13
165.0	5276.72	5259.14	4315.28	2805.59	1486.11	688.51	317.68	156.24	70.73
170.0	5276.72	5295.50	4345.65	2818.78	1471.73	681.72	312.09	151.45	70.73
175.0	5276.72	5324.67	4349.65	2830.37	1466.53	669.33	306.09	147.85	71.13
180.0	5276.72	5355.84	4315.28	2799.60	1454.54	658.54	292.91	142.26	71.53
185.0	5276.72	5314.68	4310.49	2768.83	1437.36	637.36	283.72	136.66	70.73
190.0	5276.72	5316.28	4243.35	2748.85	1409.39	624.97	273.33	131.87	69.53
195.0	5276.72	5303.89	4249.75	2694.50	1383.02	608.19	265.33	127.07	67.53
200.0	5276.72	5251.54	4172.63	2651.35	1357.04	596.20	254.15	124.28	64.74
205.0	5276.72	5225.17	4122.27	2579.02	1334.66	575.02	250.15	119.08	62.34
210.0	5276.72	5283.51	4056.74	2547.85	1290.71	559.04	238.56	115.48	60.34
215.0	5276.72	5236.36	4037.56	2460.34	1241.16	537.86	232.57	111.89	58.74
220.0	5276.72	5237.56	3964.43	2405.99	1200.80	516.68	222.18	108.29	57.14
225.0	5276.72	5183.21	3902.10	2334.06	1152.85	498.30	212.59	105.49	55.54
230.0	5276.72	5151.25	3846.95	2270.53	1127.27	478.72	203.80	101.90	53.95
235.0	5276.72	5143.25	3782.22	2223.38	1084.12	455.54	194.21	97.90	53.55
240.0	5276.72	5092.90	3701.50	2166.23	1047.35	438.76	186.21	93.11	52.75
245.0	5276.72	5043.75	3637.96	2099.90	1012.19	418.38	177.02	89.11	51.95
250.0	5276.72	5010.59	3544.45	2039.96	976.62	403.60	170.23	85.51	50.75
255.0	5276.72	4945.05	3488.51	1954.84	942.26	389.61	164.24	82.72	48.35
260.0	5276.72	4904.69	3450.95	1921.28	911.89	376.02	158.24	79.92	46.75
265.0	5276.72	4916.28	3364.63	1860.94	885.11	364.04	154.65	76.72	45.55
270.0	5276.72	4871.92	3315.48	1809.39	853.15	351.25	149.45	75.52	43.96
275.0	5276.72	4826.77	3267.53	1773.03	820.78	336.46	146.65	73.93	42.76
280.0	5276.72	4788.81	3220.78	1750.25	796.80	328.87	143.06	72.73	41.96
285.0	5276.72	4729.27	3196.40	1698.30	772.83	316.48	137.86	71.13	41.16

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	5276.72	4675.72	3132.07	1661.14	760.84	308.49	133.87	69.53	40.36
295.0	5276.72	4622.17	3065.33	1631.97	739.26	299.30	130.67	68.73	39.96
300.0	5276.72	4575.42	3023.77	1592.01	723.28	289.31	127.87	67.53	39.56
305.0	5276.72	4552.25	2972.63	1575.22	703.30	286.51	125.07	65.93	39.56
310.0	5276.72	4551.85	2934.66	1542.86	694.90	281.32	123.48	65.13	39.56
315.0	5276.72	4562.23	2950.65	1528.87	685.71	278.92	122.28	65.13	39.16
320.0	5276.72	4542.25	2933.86	1515.68	684.12	276.12	122.28	63.94	38.76
325.0	5276.72	4489.51	2937.06	1506.09	677.72	273.33	121.88	63.54	37.96
330.0	5276.72	4502.29	2904.69	1496.10	670.93	273.73	121.08	63.54	37.56
335.0	5276.72	4492.70	2875.52	1488.51	671.33	273.73	121.48	62.74	37.56
340.0	5276.72	4459.94	2847.15	1486.91	669.73	273.73	120.68	62.74	37.56
345.0	5276.72	4457.94	2859.54	1487.71	664.54	269.73	119.88	63.14	37.16
350.0	5276.72	4480.32	2851.15	1493.31	668.53	271.33	120.28	63.14	36.76
355.0	5276.72	4465.93	2888.31	1493.31	670.53	274.13	119.88	63.54	37.16
360.0	5276.72	4452.74	2885.51	1502.90	668.53	271.33	119.88	63.94	37.96

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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	22.78	13.59	7.59	2.80	0.80	0.00	0.00	0.00	0.00
5.0	23.18	13.59	7.59	2.80	0.80	0.00	0.00	0.00	0.00
10.0	22.78	13.99	7.59	2.80	0.80	0.00	0.00	0.00	0.00
15.0	23.18	13.99	7.59	2.80	0.80	0.00	0.00	0.00	0.00
20.0	23.58	14.39	7.19	2.80	0.80	0.00	0.00	0.00	0.00
25.0	25.17	14.79	7.19	3.20	0.80	0.00	0.00	0.00	0.00
30.0	25.97	15.18	6.79	3.20	0.80	0.00	0.00	0.00	0.00
35.0	26.37	15.58	6.79	3.20	0.80	0.00	0.00	0.00	0.00
40.0	26.77	15.98	6.79	3.60	0.80	0.00	0.00	0.00	0.00
45.0	27.17	15.98	6.79	3.60	0.80	0.00	0.00	0.00	0.00
50.0	27.57	15.98	7.19	3.60	0.80	0.00	0.00	0.00	0.00
55.0	27.97	15.98	7.99	3.60	0.80	0.00	0.00	0.00	0.00
60.0	27.57	15.98	8.39	3.60	0.80	0.00	0.00	0.00	0.00
65.0	27.57	16.38	9.19	3.60	1.20	0.00	0.00	0.00	0.00
70.0	27.97	16.38	9.59	4.00	1.20	0.00	0.00	0.00	0.00
75.0	28.77	16.38	9.99	4.00	1.20	0.00	0.00	0.00	0.00
80.0	30.37	16.78	9.99	4.00	1.20	0.00	0.00	0.00	0.00
85.0	31.17	17.18	9.59	4.00	1.20	0.00	0.00	0.00	0.00
90.0	32.37	17.58	9.59	4.40	1.20	0.00	0.00	0.00	0.00
95.0	33.17	18.78	9.59	4.40	1.60	0.00	0.00	0.00	0.00
100.0	33.57	19.98	9.59	4.40	1.60	0.00	0.00	0.00	0.00
105.0	34.37	20.38	9.99	4.40	1.60	0.00	0.00	0.00	0.00
110.0	35.16	20.38	10.79	4.80	1.60	0.00	0.00	0.00	0.00
115.0	35.96	20.38	11.19	4.80	1.60	0.00	0.00	0.00	0.00
120.0	36.36	21.18	11.99	5.19	1.60	0.40	0.00	0.00	0.00
125.0	37.16	21.58	11.59	5.59	1.60	0.40	0.00	0.00	0.00
130.0	37.56	21.98	11.99	5.59	1.60	0.40	0.00	0.00	0.00
135.0	39.56	22.38	11.59	5.59	1.60	0.40	0.00	0.00	0.00
140.0	40.76	22.78	11.99	5.59	1.60	0.40	0.00	0.00	0.00
145.0	42.36	23.58	11.59	5.59	2.00	0.40	0.00	0.00	0.00
150.0	42.36	25.17	11.59	5.59	2.00	0.40	0.00	0.00	0.00
155.0	42.36	26.37	11.19	5.59	2.40	0.40	0.00	0.00	0.00
160.0	41.96	26.37	10.79	5.59	2.40	0.40	0.00	0.00	0.00
165.0	41.56	25.57	11.59	5.59	2.40	0.40	0.00	0.00	0.00
170.0	40.76	24.38	12.39	5.59	2.40	0.40	0.00	0.00	0.00
175.0	39.96	23.58	12.79	5.59	2.00	0.40	0.00	0.00	0.00
180.0	38.76	23.18	12.79	5.99	2.00	0.40	0.00	0.00	0.00
185.0	37.56	22.78	12.39	6.39	2.00	0.40	0.00	0.00	0.00
190.0	37.16	22.38	12.39	5.99	2.00	0.40	0.00	0.00	0.00
195.0	37.56	21.58	12.39	5.59	1.60	0.40	0.00	0.00	0.00
200.0	37.96	21.58	11.99	5.59	2.00	0.40	0.00	0.00	0.00
205.0	37.56	21.18	11.59	5.19	2.00	0.40	0.00	0.00	0.00
210.0	37.16	21.58	11.19	5.19	2.00	0.40	0.00	0.00	0.00
215.0	36.36	21.98	10.39	4.80	2.00	0.00	0.00	0.00	0.00
220.0	35.56	21.58	10.39	4.80	2.00	0.40	0.00	0.00	0.00
225.0	34.77	20.78	10.39	4.80	2.00	0.40	0.00	0.00	0.00
230.0	33.57	19.58	10.79	4.40	1.60	0.00	0.00	0.00	0.00
235.0	32.37	18.78	10.79	4.80	1.60	0.40	0.00	0.00	0.00
240.0	30.77	18.38	10.79	4.40	1.60	0.40	0.00	0.00	0.00
245.0	29.97	17.98	10.39	4.40	1.20	0.00	0.00	0.00	0.00
250.0	29.17	17.98	10.39	4.40	1.20	0.00	0.00	0.00	0.00
255.0	28.77	17.58	9.59	4.40	1.20	0.00	0.00	0.00	0.00
260.0	28.77	17.18	9.19	4.40	1.20	0.00	0.00	0.00	0.00
265.0	28.77	17.18	8.39	4.00	1.20	0.00	0.00	0.00	0.00
270.0	28.37	16.78	7.99	4.00	1.20	0.00	0.00	0.00	0.00
275.0	27.57	16.38	7.59	4.00	1.20	0.00	0.00	0.00	0.00
280.0	27.17	16.38	7.19	3.60	1.20	0.00	0.00	0.00	0.00
285.0	26.37	16.38	7.19	3.60	1.20	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	25.97	15.98	7.19	3.60	0.80	0.00	0.00	0.00	0.00
295.0	25.17	15.18	7.59	3.60	0.80	0.00	0.00	0.00	0.00
300.0	24.38	14.79	7.99	3.20	0.80	0.00	0.00	0.00	0.00
305.0	23.98	14.79	7.99	3.20	0.80	0.00	0.00	0.00	0.00
310.0	23.58	14.39	7.99	2.80	0.80	0.00	0.00	0.00	0.00
315.0	23.18	13.59	7.99	2.80	0.80	0.00	0.00	0.00	0.00
320.0	23.58	13.59	7.99	2.80	0.80	0.00	0.00	0.00	0.00
325.0	23.58	13.59	7.99	3.20	0.80	0.00	0.00	0.00	0.00
330.0	23.98	13.19	7.59	3.20	0.80	0.00	0.00	0.00	0.00
335.0	23.98	13.59	7.19	3.20	0.80	0.00	0.00	0.00	0.00
340.0	23.98	13.59	7.19	2.80	0.80	0.00	0.00	0.00	0.00
345.0	23.98	13.59	6.79	2.80	0.80	0.00	0.00	0.00	0.00
350.0	23.98	13.19	7.19	2.80	0.80	0.00	0.00	0.00	0.00
355.0	23.58	13.59	7.19	2.80	0.80	0.00	0.00	0.00	0.00
360.0	22.78	13.59	7.59	2.80	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)

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C/ γ ($^{\circ}$)	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