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### Ten-Lighting Technology Co.Ltd

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LumCAT: LED AR111

Luminaire: AR20-3006WB

Report No: 18-0555-16

Voltage(V): 220.0400

Test No: 18-0555-16

Current(A): 0.1070

LampCAT: LED 20W

Power (W): 21.8950

Lamp flux(lm)

PF: 0.9270

Number of Lamps: 1

Ballast type:

Length(mm): 235

Width(mm): 140

Phm Type: C

Height(mm): 220

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### Photometric Results

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Lumens(lm): 2551.61

Lumens(lm)/Power(W): 116.54

Central intensity(cd): 8150.102

Maximum intensity(cd): 8628.405

Angle of maximum intensity:  $C=25.0$   $\gamma=0.0$

Beam Angle(50%Imax): [C0/180]Left=12.3 Right=8.8

[C90/270]Left=12.1 Right=9.1

Field angle(10%Imax): [C0/180]Left=27.3 Right=23.7

[C90/270]Left=27.9 Right=24.3

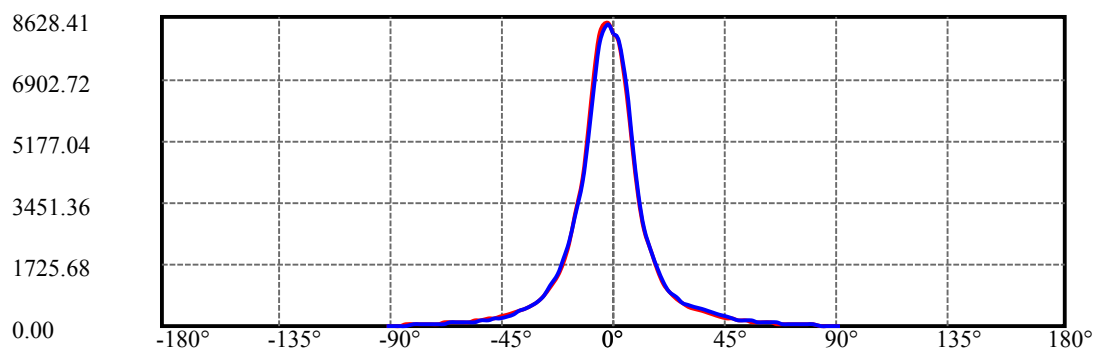
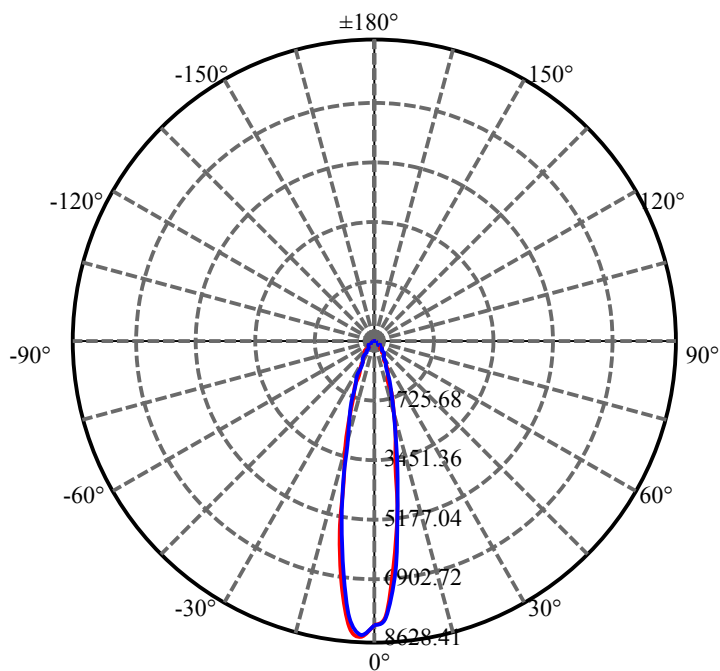
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8150.099	.000	.000	.000%	.000%
2.5	8176.997	48.820	48.820	1.913%	1.913%
5.0	7307.051	138.809	187.628	5.440%	7.353%
7.5	5937.594	197.637	385.266	7.746%	15.099%
10.0	4530.917	218.280	603.545	8.555%	23.654%
12.5	3384.213	211.654	815.199	8.295%	31.948%
15.0	2558.613	193.611	1008.810	7.588%	39.536%
17.5	1965.211	173.513	1182.323	6.800%	46.336%
20.0	1527.032	153.864	1336.187	6.030%	52.366%
22.5	1189.439	134.950	1471.136	5.289%	57.655%
25.0	932.792	117.154	1588.290	4.591%	62.247%
27.5	746.537	101.806	1690.096	3.990%	66.236%
30.0	621.126	90.167	1780.263	3.534%	69.770%
32.5	535.322	82.231	1862.495	3.223%	72.993%
35.0	469.921	76.550	1939.044	3.000%	75.993%
37.5	410.542	71.361	2010.405	2.797%	78.790%
40.0	353.263	65.530	2075.934	2.568%	81.358%
42.5	298.312	58.886	2134.820	2.308%	83.666%
45.0	249.260	51.901	2186.721	2.034%	85.700%
47.5	208.902	45.364	2232.084	1.778%	87.477%
50.0	177.596	39.829	2271.914	1.561%	89.038%
52.5	153.645	35.408	2307.322	1.388%	90.426%
55.0	134.836	31.888	2339.210	1.250%	91.676%
57.5	119.706	29.009	2368.219	1.137%	92.813%
60.0	106.963	26.561	2394.780	1.041%	93.854%
62.5	95.731	24.358	2419.138	.955%	94.808%
65.0	86.124	22.356	2441.494	.876%	95.684%
67.5	77.226	20.494	2461.987	.803%	96.488%
70.0	69.165	18.701	2480.688	.733%	97.220%
72.5	61.359	16.941	2497.630	.664%	97.884%
75.0	52.742	15.015	2512.644	.588%	98.473%
77.5	43.589	12.825	2525.470	.503%	98.975%
80.0	33.697	10.390	2535.860	.407%	99.383%
82.5	22.960	7.675	2543.535	.301%	99.683%
85.0	12.788	4.871	2548.406	.191%	99.874%
87.5	4.593	2.377	2550.783	.093%	99.968%
90.0	1.443	.827	2551.610	.032%	100.000%

ZONAL LUMEN SUMMARY

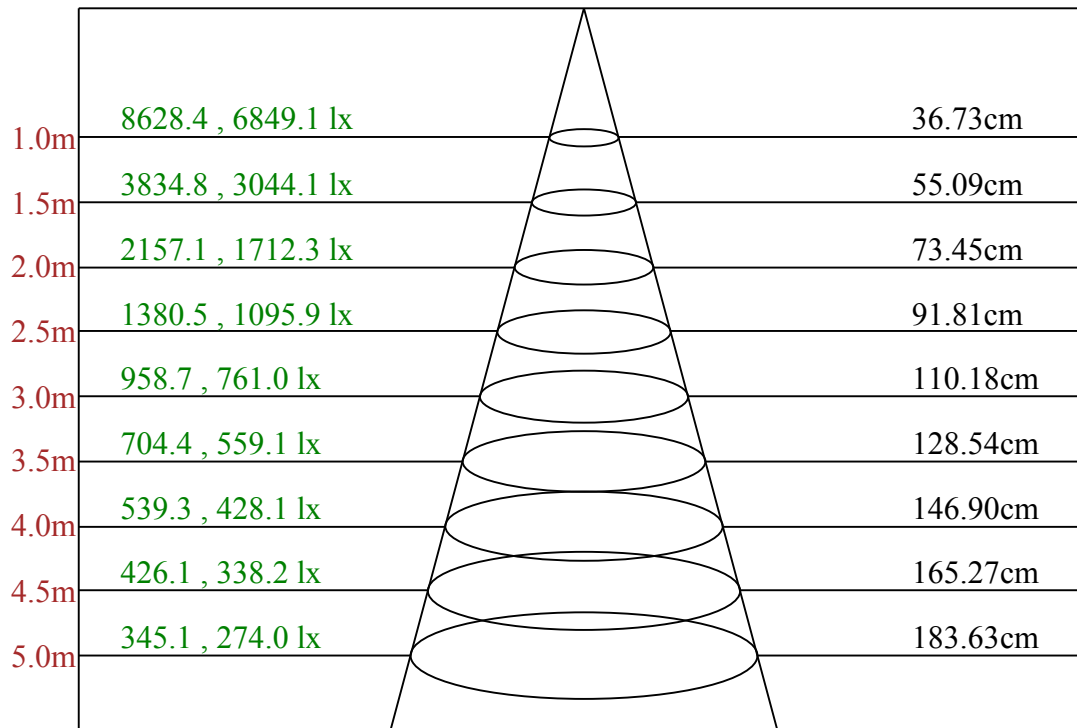
Zone	Lumens	%Fixt
0-30	1780.26	69.77%
0-40	2075.93	81.36%
0-60	2394.78	93.85%
0-90	2550.78	99.97%
0-120	2550.78	99.97%
0-180	2551.61	100.00%
60-90	182.56	7.15%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-38.68	2041.29	80.00%

ZONAL LUMEN SUMMARY

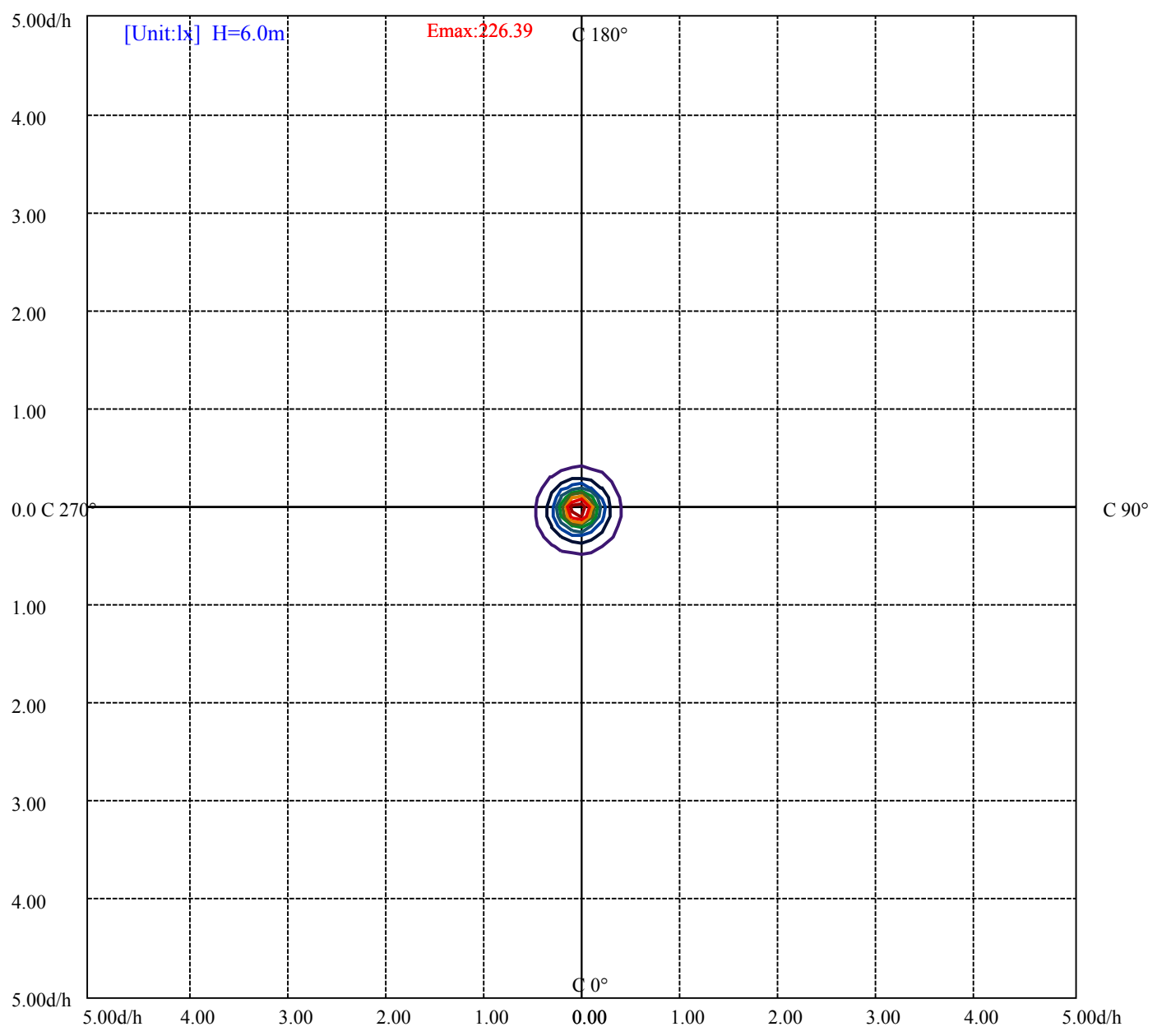
0-10	603.55
10-20	732.64
20-30	444.08
30-40	295.67
40-50	195.98
50-60	122.87
60-70	85.91
70-80	55.17
80-90	14.92
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00












C0/C180: —  
 C90/C270: —



Max , Ave      Beam angle of C25plane20.78



(10%Emax)	22.63911	
(20%Emax)	45.27834	
(30%Emax)	67.91722	
(40%Emax)	90.55639	
(50%Emax)	113.1956	
(60%Emax)	135.8347	
(70%Emax)	158.4739	
(80%Emax)	181.1128	
(90%Emax)	203.7519	

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	8150.10	7857.33	6441.60	4914.63	3612.66	2667.15	2032.59	1554.78	1204.64
5.0	8150.10	7824.47	6411.26	4861.54	3562.09	2634.28	2004.78	1534.56	1190.74
10.0	8150.10	7814.36	6375.87	4816.03	3514.06	2598.89	1976.97	1521.92	1178.85
15.0	8150.10	7804.24	6327.83	4790.75	3481.19	2568.55	1956.75	1501.69	1165.96
20.0	8150.10	7796.66	6310.14	4757.88	3466.03	2545.80	1936.52	1486.52	1154.58
25.0	8150.10	7776.44	6294.97	4727.55	3438.22	2528.10	1923.88	1476.41	1148.01
30.0	8150.10	7771.38	6279.80	4714.91	3425.58	2517.99	1908.72	1468.83	1145.99
35.0	8150.10	7766.32	6262.10	4702.27	3417.99	2505.35	1901.13	1468.83	1149.02
40.0	8150.10	7771.38	6267.16	4707.32	3415.46	2497.76	1896.08	1471.35	1150.29
45.0	8150.10	7771.38	6282.33	4702.27	3415.46	2495.23	1896.08	1473.88	1154.08
50.0	8150.10	7778.96	6297.50	4719.96	3423.05	2502.82	1898.60	1478.94	1158.38
55.0	8150.10	7786.55	6312.67	4742.72	3438.22	2512.93	1908.72	1484.00	1165.71
60.0	8150.10	7794.13	6340.47	4762.94	3460.97	2528.10	1923.88	1494.11	1175.82
65.0	8150.10	7814.36	6373.34	4800.86	3486.25	2548.33	1939.05	1511.80	1185.17
70.0	8150.10	7829.53	6416.32	4843.84	3509.00	2573.61	1954.22	1524.44	1197.56
75.0	8150.10	7849.75	6459.30	4894.40	3551.98	2601.42	1976.97	1544.67	1210.71
80.0	8150.10	7869.98	6509.86	4955.08	3594.96	2634.28	1999.73	1557.31	1225.62
85.0	8150.10	7897.78	6573.06	5013.22	3653.10	2667.15	2022.48	1577.53	1238.77
90.0	8150.10	7923.07	6641.32	5084.01	3698.61	2707.60	2052.82	1597.76	1255.45
95.0	8150.10	7950.87	6712.11	5162.38	3769.40	2755.63	2083.15	1620.51	1272.14
100.0	8150.10	7973.63	6775.31	5250.86	3845.24	2808.72	2116.02	1645.79	1294.39
105.0	8150.10	8006.49	6853.68	5344.40	3928.67	2876.98	2151.41	1668.55	1309.56
110.0	8150.10	8044.41	6944.69	5430.36	4012.09	2925.01	2194.39	1696.36	1327.25
115.0	8150.10	8072.22	7035.70	5528.96	4092.99	2990.74	2239.90	1731.75	1352.53
120.0	8150.10	8107.62	7134.30	5640.19	4194.12	3066.59	2290.46	1767.14	1375.29
125.0	8150.10	8145.54	7212.67	5753.96	4275.02	3150.01	2346.08	1800.01	1405.62
130.0	8150.10	8183.46	7308.74	5862.66	4388.78	3230.91	2406.75	1842.99	1433.43
135.0	8150.10	8221.38	7414.92	5986.54	4510.13	3299.17	2472.48	1885.96	1461.24
140.0	8150.10	8254.25	7523.63	6107.89	4628.95	3390.18	2520.52	1928.94	1496.64
145.0	8150.10	8279.53	7599.47	6234.29	4755.36	3496.36	2588.77	1974.45	1529.50
150.0	8150.10	8317.45	7700.59	6375.87	4861.54	3597.49	2657.03	2017.42	1567.42
155.0	8150.10	8352.84	7796.66	6479.52	4982.88	3675.86	2740.46	2067.99	1597.76
160.0	8150.10	8393.29	7907.90	6600.87	5101.71	3776.98	2811.25	2118.55	1633.15
165.0	8150.10	8421.10	7993.85	6719.69	5225.58	3883.16	2869.39	2169.11	1668.55
170.0	8150.10	8446.38	8062.11	6861.26	5331.76	3981.76	2945.24	2229.78	1703.94
175.0	8150.10	8474.19	8132.90	6972.50	5437.94	4075.30	3023.61	2272.76	1746.92
180.0	8150.10	8494.42	8206.21	7050.87	5539.07	4141.03	3094.39	2325.85	1782.31
185.0	8150.10	8519.70	8269.41	7149.47	5630.08	4226.98	3142.43	2378.94	1822.76
190.0	8150.10	8542.45	8330.09	7222.78	5728.67	4302.83	3203.10	2432.03	1858.15
195.0	8150.10	8560.15	8365.48	7283.46	5791.88	4371.09	3258.72	2464.90	1896.08
200.0	8150.10	8570.26	8398.35	7334.02	5839.91	4424.18	3309.28	2502.82	1928.94
205.0	8150.10	8587.96	8431.21	7379.52	5882.89	4457.04	3352.26	2535.68	1949.17
210.0	8150.10	8590.48	8448.91	7407.33	5913.23	4487.38	3372.49	2560.97	1966.86
215.0	8150.10	8600.60	8464.08	7422.50	5933.45	4512.66	3392.71	2578.66	1982.03
220.0	8150.10	8595.54	8456.49	7417.45	5933.45	4515.19	3405.35	2586.25	1997.20
225.0	8150.10	8595.54	8443.85	7394.69	5915.75	4510.13	3407.88	2596.36	1999.73
230.0	8150.10	8585.43	8421.10	7356.77	5882.89	4489.91	3395.24	2596.36	2007.31
235.0	8150.10	8582.90	8390.76	7323.91	5832.33	4449.46	3377.54	2591.30	2004.78
240.0	8150.10	8570.26	8352.84	7265.76	5786.82	4409.01	3352.26	2576.13	2004.03
245.0	8150.10	8550.03	8297.22	7182.33	5718.56	4348.33	3319.40	2560.97	1994.42
250.0	8150.10	8529.81	8249.19	7096.38	5642.72	4302.83	3281.47	2535.68	1977.23
255.0	8150.10	8514.64	8178.40	7005.36	5544.12	4237.10	3238.50	2500.29	1949.67
260.0	8150.10	8494.42	8105.09	6932.05	5455.64	4166.31	3187.93	2457.31	1921.36
265.0	8150.10	8461.55	8024.19	6813.23	5374.74	4080.35	3134.84	2426.98	1892.03
270.0	8150.10	8426.16	7933.18	6694.41	5268.56	3999.45	3071.64	2381.47	1862.45
275.0	8150.10	8403.40	7849.75	6583.17	5147.21	3933.72	2998.33	2335.96	1824.02
280.0	8150.10	8375.60	7766.32	6487.10	5041.03	3842.71	2947.76	2285.40	1780.79
285.0	8150.10	8345.26	7667.73	6353.12	4927.27	3741.59	2882.03	2232.31	1748.18

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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	8150.10	8302.28	7569.13	6231.77	4841.31	3648.05	2811.25	2181.75	1704.95
295.0	8150.10	8271.94	7485.70	6110.42	4709.85	3577.26	2732.88	2126.13	1657.42
300.0	8150.10	8228.97	7377.00	5991.60	4601.14	3488.78	2659.56	2075.57	1608.12
305.0	8150.10	8193.57	7278.40	5882.89	4494.96	3390.18	2606.47	2012.37	1574.25
310.0	8150.10	8153.12	7174.75	5764.07	4406.48	3304.23	2535.68	1956.75	1530.01
315.0	8150.10	8127.84	7071.10	5650.30	4287.66	3220.80	2462.37	1901.13	1484.50
320.0	8150.10	8089.92	7007.89	5544.12	4189.06	3155.07	2396.64	1850.57	1440.51
325.0	8150.10	8057.05	6916.88	5430.36	4098.05	3064.06	2346.08	1800.01	1400.06
330.0	8150.10	8016.60	6825.87	5359.57	4014.62	2990.74	2285.40	1754.50	1372.76
335.0	8150.10	7996.38	6742.44	5263.50	3936.25	2925.01	2224.73	1714.05	1339.39
340.0	8150.10	7960.99	6656.49	5175.02	3852.82	2861.81	2176.69	1676.13	1301.47
345.0	8150.10	7930.65	6621.09	5096.65	3779.51	2806.19	2131.19	1643.27	1273.66
350.0	8150.10	7900.31	6547.78	5046.09	3716.31	2755.63	2103.38	1612.93	1249.39
355.0	8150.10	7875.03	6497.22	4980.36	3660.69	2710.12	2055.35	1580.06	1229.67
360.0	8150.10	7857.33	6441.60	4914.63	3612.66	2667.15	2032.59	1554.78	1204.64

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	945.00	751.86	621.66	537.73	477.05	422.95	369.10	316.52	266.97
5.0	935.40	744.53	616.86	534.95	473.26	421.18	368.85	318.79	270.76
10.0	924.02	740.73	612.05	532.92	471.24	419.92	368.85	321.07	273.03
15.0	914.92	734.67	611.29	531.91	471.74	419.41	369.36	322.59	273.54
20.0	908.35	730.12	610.79	529.89	472.00	419.92	370.62	320.56	272.28
25.0	903.80	728.60	609.27	530.14	473.26	422.95	372.89	321.32	271.52
30.0	900.51	726.07	607.00	531.91	476.80	428.77	378.46	325.11	274.55
35.0	901.27	724.55	606.74	533.43	481.86	434.58	385.03	331.94	278.34
40.0	903.54	724.55	608.01	536.46	486.66	441.41	392.87	336.74	285.68
45.0	906.32	728.09	610.79	539.24	489.95	448.48	398.43	343.32	288.96
50.0	910.37	732.39	614.08	542.78	494.75	452.78	401.21	344.83	289.97
55.0	916.18	736.94	617.87	546.07	497.02	452.78	400.70	344.07	291.74
60.0	924.53	742.00	620.40	547.08	498.04	450.76	399.44	346.60	293.26
65.0	935.40	751.35	625.70	549.86	498.54	451.01	399.44	348.12	294.02
70.0	945.26	759.44	630.26	551.63	498.54	450.00	400.45	350.14	296.55
75.0	955.87	767.53	634.05	554.92	499.55	450.25	402.47	353.18	300.59
80.0	965.23	773.85	641.38	558.71	504.10	453.29	405.76	357.73	303.88
85.0	978.12	781.44	647.95	564.02	510.68	462.39	411.83	363.04	307.92
90.0	988.99	791.04	655.28	570.34	516.74	471.24	420.17	368.09	312.22
95.0	1000.88	799.89	658.57	576.15	523.32	477.56	431.29	375.42	318.54
100.0	1013.77	807.98	667.42	580.96	528.88	484.38	441.15	383.01	324.86
105.0	1029.19	817.33	675.26	584.75	532.42	490.70	446.46	389.83	328.91
110.0	1045.62	828.71	682.59	589.55	535.45	491.46	446.72	392.87	331.18
115.0	1066.35	840.85	687.90	592.59	535.96	488.93	442.67	389.83	329.41
120.0	1079.25	853.49	694.22	598.15	538.23	488.18	438.88	385.28	327.14
125.0	1098.97	869.92	705.59	603.71	538.49	487.42	436.86	384.02	327.64
130.0	1119.70	885.09	717.98	609.78	541.01	488.43	436.60	384.02	329.66
135.0	1144.47	897.48	728.09	616.10	543.79	489.44	438.37	386.29	330.42
140.0	1163.94	917.19	735.68	622.17	548.09	493.74	441.91	388.06	331.94
145.0	1190.23	933.63	746.55	629.75	552.64	496.77	446.97	391.10	334.21
150.0	1216.52	950.06	759.19	634.30	555.68	501.07	449.24	394.38	338.01
155.0	1244.08	969.27	770.82	639.10	558.71	504.36	452.78	399.69	341.29
160.0	1272.90	986.97	783.46	645.42	560.73	505.11	453.54	401.46	343.57
165.0	1291.86	1007.70	793.06	654.78	565.03	506.88	453.54	400.20	341.55
170.0	1321.19	1028.18	808.99	661.35	567.05	504.86	450.00	395.65	337.75
175.0	1352.03	1048.15	821.38	667.17	568.32	502.59	446.21	390.84	333.20
180.0	1376.55	1066.10	835.28	676.27	571.86	500.06	441.91	385.28	329.16
185.0	1405.37	1084.30	849.44	685.12	576.15	499.55	436.60	379.47	325.62
190.0	1436.72	1104.02	860.82	692.45	577.42	501.58	436.86	377.19	324.36
195.0	1468.07	1124.25	873.71	700.54	579.19	501.32	435.59	377.95	324.36
200.0	1486.52	1145.23	886.10	705.59	586.27	502.59	436.60	376.43	322.84
205.0	1504.22	1155.34	897.73	714.69	590.82	505.37	437.11	375.42	320.31
210.0	1523.43	1171.27	908.60	720.76	595.11	507.90	437.36	374.41	316.52
215.0	1538.10	1185.43	919.72	727.08	597.64	509.41	437.61	374.41	313.48
220.0	1548.46	1198.83	927.31	731.13	600.42	510.42	436.35	372.64	311.97
225.0	1558.83	1206.66	932.36	737.95	604.97	510.93	436.10	368.34	308.68
230.0	1561.35	1210.45	937.93	742.00	608.01	511.94	435.34	365.31	304.64
235.0	1559.59	1211.97	941.72	745.28	608.77	511.94	431.55	363.29	301.86
240.0	1557.82	1210.71	940.20	745.79	606.74	506.38	426.49	358.23	299.07
245.0	1552.00	1202.11	934.64	741.24	603.20	500.82	419.66	352.67	296.29
250.0	1536.83	1192.51	925.28	734.67	597.64	496.52	414.61	348.37	291.49
255.0	1514.84	1178.35	916.18	729.10	592.59	490.70	410.82	344.83	288.20
260.0	1494.87	1160.15	904.55	718.23	583.99	488.43	408.29	341.80	285.42
265.0	1470.09	1140.68	888.37	703.57	578.68	484.89	405.76	339.52	282.14
270.0	1448.10	1117.93	868.15	693.96	572.36	482.36	404.75	337.50	279.36
275.0	1417.25	1099.72	853.49	682.84	565.03	477.05	402.98	335.98	277.33
280.0	1382.87	1072.42	839.83	670.70	555.17	468.96	399.69	332.95	275.56
285.0	1350.76	1049.16	824.16	658.06	547.59	465.42	396.15	329.92	273.29

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	1322.45	1023.63	803.18	649.72	538.74	458.85	390.34	326.12	271.01
295.0	1288.07	999.11	785.99	637.84	530.14	451.77	384.02	322.84	268.74
300.0	1251.41	975.34	768.04	625.20	522.56	444.95	379.72	321.32	268.23
305.0	1214.75	948.80	754.13	615.34	515.48	440.40	377.19	319.05	267.22
310.0	1176.07	922.00	735.17	604.47	511.18	437.87	374.66	318.54	266.71
315.0	1154.58	897.98	717.47	597.14	507.39	435.34	372.89	317.02	266.21
320.0	1120.45	880.03	704.58	588.04	501.58	433.32	374.16	316.77	264.94
325.0	1088.35	857.53	690.68	579.69	499.05	434.58	374.66	317.02	265.45
330.0	1058.77	836.04	677.03	573.37	497.53	433.82	373.91	317.28	265.20
335.0	1030.96	814.05	662.62	565.28	494.24	433.06	373.15	317.28	265.96
340.0	1013.01	796.35	650.23	558.20	489.95	432.05	373.15	316.77	265.96
345.0	989.50	783.21	640.11	551.13	486.66	431.29	372.64	317.02	265.20
350.0	970.03	769.55	632.28	546.83	482.87	429.78	371.63	315.25	264.69
355.0	954.61	758.18	625.45	542.02	480.59	426.74	369.61	315.00	265.96
360.0	945.00	751.86	621.66	537.73	477.05	422.95	369.10	316.52	266.97

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	223.23	188.60	161.04	139.55	122.61	110.73	99.10	88.48	79.38
5.0	226.52	191.63	164.83	143.34	126.66	113.76	101.12	90.00	81.15
10.0	229.80	194.41	167.36	146.88	129.19	115.79	102.64	91.52	83.68
15.0	231.07	194.92	168.12	145.87	128.93	115.03	102.14	91.52	83.17
20.0	229.05	193.40	165.59	144.35	127.16	113.26	100.62	90.25	81.15
25.0	227.53	191.38	163.57	142.84	125.14	111.74	100.11	88.99	78.88
30.0	228.54	191.12	162.56	141.32	124.13	110.48	98.60	87.73	77.87
35.0	231.32	192.89	163.82	143.09	125.39	110.98	98.34	87.22	78.37
40.0	237.39	197.70	168.62	145.37	128.17	112.75	100.37	88.74	79.64
45.0	239.41	200.73	171.41	148.65	130.70	115.03	102.89	91.77	81.91
50.0	241.43	202.00	172.16	149.41	131.46	116.29	103.90	92.78	83.68
55.0	242.95	203.51	172.42	149.16	130.96	116.29	102.89	92.78	83.93
60.0	244.21	204.52	173.43	149.41	131.21	115.53	103.15	92.53	83.93
65.0	244.47	205.53	175.45	151.43	133.23	117.56	105.17	94.55	85.45
70.0	247.75	208.82	176.97	153.20	134.24	119.83	107.44	96.83	89.24
75.0	251.80	211.10	179.50	154.97	135.51	120.59	108.46	98.34	90.76
80.0	255.09	213.62	181.01	155.98	136.26	120.34	106.94	97.33	88.74
85.0	257.87	214.89	181.77	156.24	136.01	119.58	106.18	95.81	86.97
90.0	259.64	216.91	182.78	156.24	135.76	119.07	106.18	95.06	86.97
95.0	263.93	218.93	183.54	156.74	136.01	119.33	106.43	94.80	86.71
100.0	270.25	222.22	185.31	158.01	136.77	120.08	106.43	94.80	85.96
105.0	274.30	226.26	188.60	160.28	138.54	121.60	107.44	95.31	85.96
110.0	274.55	226.52	189.35	161.04	138.79	122.11	108.20	96.32	86.46
115.0	273.54	227.02	188.60	160.53	140.06	122.11	108.96	97.08	88.23
120.0	274.05	227.78	190.11	161.55	140.56	123.37	109.47	97.58	88.48
125.0	273.79	229.55	193.91	164.83	143.09	126.15	110.98	98.85	89.24
130.0	275.82	231.57	196.69	168.37	145.87	128.43	113.26	100.62	90.76
135.0	277.08	233.85	198.71	170.14	148.15	129.94	115.53	103.40	93.03
140.0	278.34	235.11	199.72	170.90	148.65	130.70	116.55	103.90	93.79
145.0	280.11	234.61	199.21	170.65	147.64	130.45	115.28	102.39	92.02
150.0	282.14	235.87	199.47	171.15	147.89	129.94	114.52	101.38	91.01
155.0	286.43	237.89	199.21	170.90	148.40	130.20	115.28	102.14	91.26
160.0	288.96	240.93	201.24	170.65	148.40	130.96	116.55	102.64	91.26
165.0	287.70	240.42	200.73	170.14	147.14	130.20	115.28	102.14	90.76
170.0	283.15	236.38	198.20	168.62	145.37	127.92	113.51	101.38	90.51
175.0	279.61	233.34	196.69	167.11	144.10	126.41	112.75	100.87	89.75
180.0	276.57	231.07	194.66	166.35	144.61	127.16	113.26	101.12	89.75
185.0	274.55	230.31	195.42	168.12	146.12	129.19	115.53	102.39	91.01
190.0	274.05	230.56	197.70	170.39	148.65	131.21	116.55	104.66	92.53
195.0	274.05	232.08	199.21	172.16	149.92	131.97	118.06	105.42	93.54
200.0	272.78	230.82	197.95	170.90	149.41	131.46	117.30	105.42	93.29
205.0	270.51	227.53	194.41	167.11	146.12	129.44	115.28	103.90	91.77
210.0	266.71	222.47	188.60	162.05	141.83	125.90	112.75	101.38	90.51
215.0	261.41	218.18	184.30	159.52	138.79	123.37	110.48	99.86	89.75
220.0	259.13	215.90	181.52	157.25	137.78	122.36	109.47	99.10	89.24
225.0	256.10	212.87	180.00	156.24	137.53	122.61	110.23	99.10	88.99
230.0	254.33	211.35	179.50	155.73	137.53	123.12	110.73	99.10	88.99
235.0	252.05	210.84	179.24	155.48	137.28	122.36	110.23	99.10	88.99
240.0	249.78	209.83	178.74	155.73	137.53	122.36	109.97	99.10	88.48
245.0	245.98	207.56	178.48	155.48	137.78	123.37	110.48	99.61	88.99
250.0	243.46	205.53	176.97	155.48	137.78	123.62	110.98	99.86	89.24
255.0	241.69	202.50	174.19	153.46	137.02	122.87	110.73	99.10	88.48
260.0	237.64	199.97	171.66	151.43	133.99	120.84	108.20	97.08	87.22
265.0	233.60	196.43	167.61	147.89	130.96	117.81	106.18	95.31	86.21
270.0	231.07	192.89	164.83	144.10	128.68	115.28	104.66	94.30	85.70
275.0	230.31	191.63	162.81	142.08	126.41	114.27	103.40	93.54	85.20
280.0	228.29	189.86	161.80	141.32	125.39	113.01	102.64	92.78	84.69
285.0	226.77	188.85	161.29	141.07	125.65	112.50	101.63	92.28	84.69

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	225.00	188.34	161.04	140.82	125.14	112.50	102.14	92.02	84.19
295.0	224.24	188.34	160.79	140.82	125.39	113.01	102.39	91.52	83.43
300.0	223.23	188.85	161.29	142.08	126.91	113.76	102.64	92.02	82.92
305.0	223.74	188.85	163.32	144.35	128.43	114.78	102.64	92.28	82.92
310.0	223.99	189.61	164.83	145.37	128.93	115.03	103.90	92.78	83.43
315.0	223.48	190.11	164.07	144.35	128.17	114.78	103.40	91.77	82.42
320.0	222.47	189.35	162.56	142.84	127.16	113.51	101.63	90.76	80.90
325.0	222.98	188.60	162.30	141.83	126.15	112.75	100.37	90.51	80.14
330.0	222.22	187.84	162.30	141.83	125.90	112.25	100.62	89.75	80.65
335.0	221.71	187.33	161.29	141.07	125.39	111.74	100.62	89.49	80.39
340.0	220.20	186.07	159.27	139.30	123.62	110.48	99.10	87.98	78.88
345.0	219.44	184.30	157.00	136.77	121.35	108.71	96.83	86.46	77.36
350.0	219.69	183.29	156.74	136.26	120.08	106.94	96.57	86.71	77.61
355.0	220.70	185.06	157.50	136.52	120.59	107.95	97.08	87.22	78.37
360.0	223.23	188.60	161.04	139.55	122.61	110.73	99.10	88.48	79.38

C/γ(°)	67.5	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5
0.0	71.29	64.47	56.63	47.28	37.67	26.80	15.93	7.08	1.52
5.0	74.33	68.51	60.42	50.81	40.20	29.07	17.95	7.58	1.52
10.0	76.60	70.79	63.71	53.09	42.98	31.10	18.96	8.09	1.26
15.0	76.10	70.53	63.46	53.09	43.23	31.60	19.47	8.09	1.26
20.0	73.82	67.25	60.42	50.56	41.46	29.83	18.20	7.84	1.26
25.0	71.04	63.46	56.12	47.53	37.92	27.56	16.69	6.83	1.77
30.0	68.76	61.18	53.09	44.49	35.65	25.79	15.42	6.57	1.52
35.0	69.27	60.93	52.58	43.99	34.89	25.03	14.92	6.57	1.77
40.0	72.05	64.21	55.62	47.28	37.42	26.80	15.42	6.83	1.77
45.0	74.58	67.75	59.66	50.81	41.21	30.34	16.18	7.08	2.02
50.0	75.59	68.01	60.67	51.57	41.97	30.84	17.19	7.33	1.52
55.0	75.59	67.75	59.92	50.81	41.21	30.59	18.96	7.84	1.52
60.0	75.84	68.76	61.18	52.58	42.98	31.60	20.22	8.60	1.77
65.0	78.88	72.81	66.24	56.12	46.26	35.39	21.49	10.11	2.02
70.0	83.17	77.87	71.55	60.17	49.80	38.43	23.51	12.13	2.02
75.0	85.20	78.88	73.57	62.70	51.57	40.96	26.29	14.92	2.53
80.0	82.16	76.35	69.78	61.18	50.06	39.44	27.56	14.41	2.28
85.0	78.62	72.05	64.47	57.14	47.53	36.40	25.28	13.15	2.53
90.0	77.61	70.03	62.19	54.61	45.51	35.14	22.25	11.38	2.78
95.0	77.11	68.01	60.93	51.83	42.98	33.62	20.98	10.87	2.78
100.0	75.08	66.24	58.40	49.80	40.70	31.35	20.48	10.87	3.29
105.0	75.08	65.98	57.14	48.79	40.45	30.59	20.73	11.12	4.04
110.0	76.85	67.25	59.41	50.56	41.97	32.36	21.49	11.63	4.55
115.0	78.62	69.52	62.19	53.85	44.49	34.89	23.26	12.39	5.06
120.0	78.62	70.53	62.70	55.37	46.26	36.40	25.28	12.89	5.31
125.0	80.14	72.30	64.72	57.39	48.03	38.17	27.05	14.41	5.81
130.0	82.92	75.34	68.76	60.17	51.32	40.96	29.58	17.95	6.57
135.0	86.21	78.62	73.82	65.22	54.61	45.51	32.87	21.24	8.60
140.0	85.70	79.64	73.06	65.73	55.87	45.76	33.62	21.24	9.86
145.0	83.17	75.59	68.51	60.67	52.08	42.72	31.10	19.72	9.10
150.0	81.66	73.31	65.73	57.39	49.55	39.94	29.58	18.46	7.84
155.0	81.66	73.06	65.22	56.88	49.05	39.69	29.58	17.70	7.33
160.0	81.15	73.31	64.72	57.14	48.54	39.69	29.58	16.94	7.33
165.0	81.40	72.56	64.72	56.38	47.53	38.68	28.06	16.94	7.84
170.0	80.65	71.29	63.46	54.61	46.26	36.91	26.80	17.19	8.09
175.0	80.14	71.29	62.70	53.85	46.01	36.40	26.80	16.94	8.34
180.0	80.65	71.55	62.95	54.61	46.01	36.66	27.05	16.94	8.60
185.0	80.90	72.05	64.47	56.12	47.02	37.67	27.81	17.44	8.34
190.0	81.91	73.31	65.48	57.39	48.03	38.93	29.07	18.71	9.35
195.0	83.17	74.83	66.74	59.41	49.80	40.45	30.34	20.22	10.37
200.0	83.43	75.08	67.25	59.41	50.81	40.70	30.84	20.48	10.87
205.0	81.66	72.81	64.97	56.63	48.29	38.43	29.07	18.71	9.35
210.0	80.14	71.80	63.20	54.86	46.26	37.42	27.81	17.70	8.85
215.0	79.89	71.29	62.70	53.85	45.00	36.40	27.05	17.19	8.34
220.0	79.64	70.79	62.95	54.10	45.00	36.15	26.29	16.69	8.34
225.0	79.38	70.28	62.95	54.10	45.51	35.65	26.04	16.43	7.84
230.0	79.38	70.79	62.19	54.10	45.25	35.90	26.55	16.43	7.58
235.0	79.64	71.04	62.44	53.85	45.00	35.65	26.55	16.43	7.33
240.0	79.38	70.53	62.44	53.34	44.75	35.90	26.29	16.18	6.83
245.0	79.13	70.28	62.44	53.85	45.00	35.90	25.79	15.67	7.08
250.0	79.38	71.04	62.44	54.35	45.00	35.39	25.53	15.93	6.83
255.0	79.38	70.79	61.94	54.10	44.75	34.89	25.79	15.93	6.32
260.0	78.62	69.52	61.69	52.58	43.74	34.38	24.52	15.17	5.81
265.0	76.85	67.75	60.42	51.07	42.47	33.37	23.26	13.90	5.06
270.0	76.10	67.25	58.90	50.31	41.71	32.11	22.50	13.40	4.30
275.0	75.59	66.99	57.89	49.80	40.96	31.35	22.25	12.89	3.54
280.0	75.08	66.24	57.39	49.30	40.20	30.84	21.49	12.13	3.03
285.0	74.07	65.48	57.64	49.05	39.69	30.59	20.48	11.12	2.78

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	73.82	65.22	57.14	48.29	39.69	30.08	20.73	11.12	2.78
295.0	73.82	65.22	56.63	48.03	39.69	29.83	20.48	11.12	2.78
300.0	73.82	64.97	56.63	48.29	39.44	29.83	19.47	10.87	2.53
305.0	74.33	65.73	57.89	49.05	39.94	30.59	19.72	10.62	2.53
310.0	74.33	66.24	58.65	49.80	39.94	30.34	20.22	10.37	2.28
315.0	73.82	65.48	57.64	48.79	39.94	29.83	19.72	10.37	1.77
320.0	72.81	64.21	55.87	47.28	38.93	29.07	18.71	9.61	1.52
325.0	71.80	63.46	55.11	47.02	37.92	28.57	18.20	8.60	1.52
330.0	71.80	63.46	55.62	47.28	37.92	27.81	17.44	7.84	1.52
335.0	71.29	63.20	55.11	46.77	37.92	27.05	15.93	7.33	1.26
340.0	70.79	62.19	53.85	45.00	35.65	26.04	15.42	6.57	1.77
345.0	69.27	60.93	52.08	43.74	34.38	25.28	15.67	6.57	1.77
350.0	68.76	60.42	52.33	44.24	35.14	25.03	15.17	6.32	1.77
355.0	69.78	62.19	54.35	46.26	36.40	25.79	15.17	6.83	1.77
360.0	71.29	64.47	56.63	47.28	37.67	26.80	15.93	7.08	1.52

Intensity data(cd)

C/γ(°)	90.0
0.0	1.26
5.0	1.26
10.0	1.26
15.0	1.26
20.0	1.52
25.0	1.52
30.0	1.26
35.0	1.26
40.0	1.26
45.0	1.26
50.0	1.26
55.0	1.01
60.0	1.26
65.0	1.26
70.0	1.26
75.0	1.26
80.0	1.26
85.0	1.26
90.0	1.52
95.0	1.52
100.0	1.26
105.0	1.26
110.0	1.26
115.0	1.26
120.0	1.26
125.0	1.52
130.0	1.77
135.0	1.52
140.0	1.52
145.0	1.26
150.0	1.26
155.0	1.26
160.0	2.02
165.0	1.77
170.0	1.77
175.0	1.52
180.0	1.77
185.0	1.77
190.0	2.02
195.0	2.28
200.0	2.02
205.0	1.52
210.0	1.77
215.0	1.77
220.0	1.77
225.0	2.02
230.0	1.52
235.0	1.26
240.0	1.52
245.0	1.52
250.0	1.52
255.0	1.52
260.0	1.26
265.0	1.26
270.0	1.26
275.0	1.77
280.0	1.52
285.0	1.52

Intensity data(cd)

C/γ(°)	90.0
290.0	1.26
295.0	1.26
300.0	1.26
305.0	1.26
310.0	1.26
315.0	1.26
320.0	1.52
325.0	1.52
330.0	1.52
335.0	1.26
340.0	1.26
345.0	1.26
350.0	1.26
355.0	1.01
360.0	1.26