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LumCAT: LL4SR-27K

Luminaire:

Report No:

Voltage(V): 120.02

Test No:

Current(A): 0.1216

LampCAT:

Power (W): 14.4160

Lamp flux(lm): 850.8

PF: 0.9878

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 850.82

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 59.02

Central intensity(cd): 366.320

Maximum intensity(cd): 366.320

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

Beam Angle(50%Imax): [C0/180]Total=99.7

[C90/270]Total=99.3

Field angle(10%Imax): [C0/180]Total=147.6

[C90/270]Total=148.0

Maximum s/h(1/2): C0\_180=1.24 C90\_270=1.18

Maximum s/h(1/4): C0\_180=1.77 C90\_270=1.29

Up flux rate of lamp(%): 0.33%

Down flux rate of lamp(%): 99.67%

Up flux rate of LUM(%): 0.33%

Down flux rate of LUM(%): 99.67%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 85.071%

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Equipment: GMS-3000  
Temperature(°C): 25

Date:  
Humidity(%): 58%

Operator: Zac

## Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	356.952	.000	.000	.000%	.000%
5.0	355.064	8.512	8.512	1.000%	1.000%
10.0	349.259	25.196	33.708	2.961%	3.962%
15.0	339.905	40.881	74.589	4.805%	8.767%
20.0	326.719	54.939	129.528	6.457%	15.224%
25.0	308.295	66.601	196.129	7.828%	23.052%
30.0	286.379	75.257	271.386	8.845%	31.897%
35.0	261.753	80.716	352.102	9.487%	41.384%
40.0	234.869	82.858	434.959	9.739%	51.122%
45.0	206.140	81.656	516.616	9.597%	60.719%
50.0	175.978	77.213	593.828	9.075%	69.795%
55.0	145.404	69.879	663.708	8.213%	78.008%
60.0	114.574	60.093	723.801	7.063%	85.071%
65.0	84.597	48.419	772.220	5.691%	90.761%
70.0	55.811	35.552	807.772	4.179%	94.940%
75.0	30.035	22.439	830.210	2.637%	97.577%
80.0	12.462	11.371	841.582	1.336%	98.914%
85.0	5.351	4.840	846.422	.569%	99.483%
90.0	.497	1.601	848.023	.188%	99.671%
95.0	.227	.198	848.221	.023%	99.694%
100.0	.227	.123	848.344	.014%	99.709%
105.0	.255	.129	848.474	.015%	99.724%
110.0	.326	.152	848.626	.018%	99.742%
115.0	.326	.165	848.791	.019%	99.761%
120.0	.426	.183	848.974	.021%	99.783%
125.0	.468	.207	849.180	.024%	99.807%
130.0	.468	.204	849.384	.024%	99.831%
135.0	.525	.201	849.585	.024%	99.854%
140.0	.582	.205	849.789	.024%	99.878%
145.0	.596	.196	849.986	.023%	99.901%
150.0	.724	.194	850.180	.023%	99.924%
155.0	.752	.187	850.367	.022%	99.946%
160.0	.738	.156	850.523	.018%	99.965%
165.0	.823	.129	850.652	.015%	99.980%
170.0	.780	.095	850.747	.011%	99.991%
175.0	.837	.058	850.805	.007%	99.998%
180.0	.795	.020	850.824	.002%	100.000%

Equipment: GMS-3000  
Temperature( $^{\circ}$ C): 25

Date:  
Humidity(%): 58%

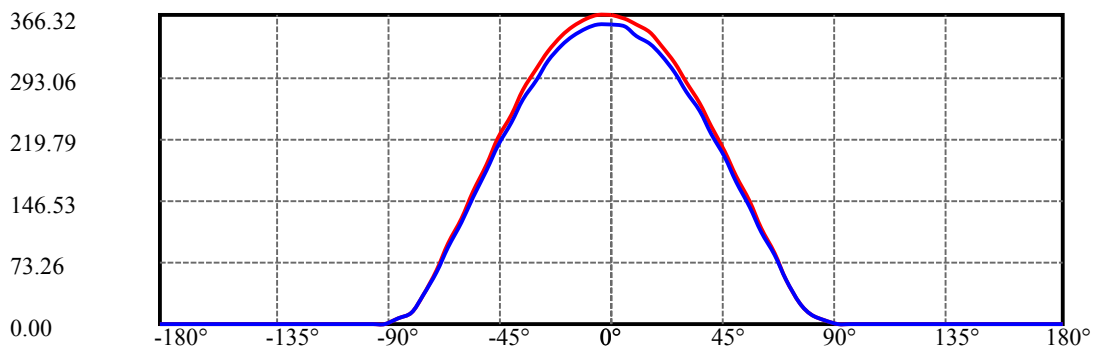
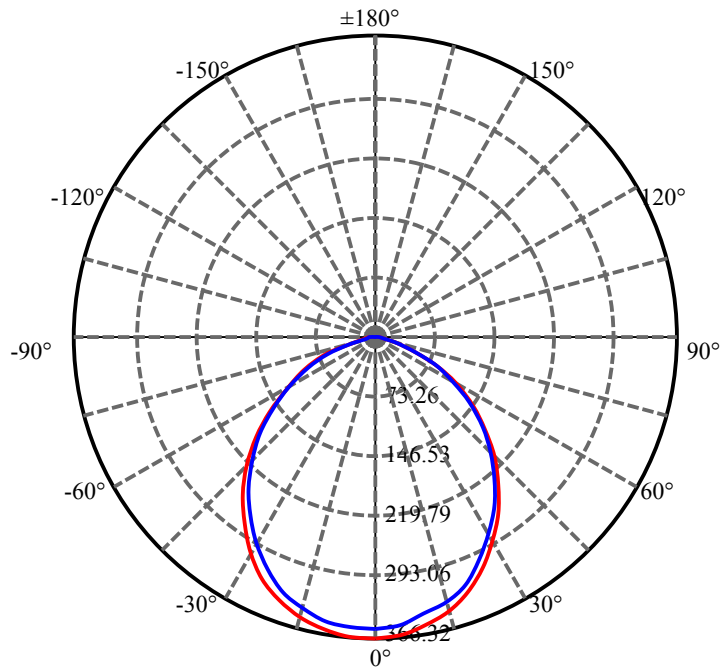
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	271.39	31.90%	31.90%
0-40	434.96	51.12%	51.12%
0-60	723.80	85.07%	85.07%
0-90	848.02	99.67%	99.67%
0-120	848.97	99.78%	99.78%
0-180	850.82	100.00%	100.00%
60-90	184.32	21.66%	21.66%
90-120	2.55	0.30%	0.30%
90-130	2.96	0.35%	0.35%
90-150	3.76	0.44%	0.44%
90-180	4.38	0.52%	0.52%
0-56.41	680.66	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	33.71
10-20	95.82
20-30	141.86
30-40	163.57
40-50	158.87
50-60	129.97
60-70	83.97
70-80	33.81
80-90	6.44
90-100	0.32
100-110	0.28
110-120	0.35
120-130	0.41
130-140	0.41
140-150	0.39
150-160	0.34
160-170	0.22
170-180	0.06

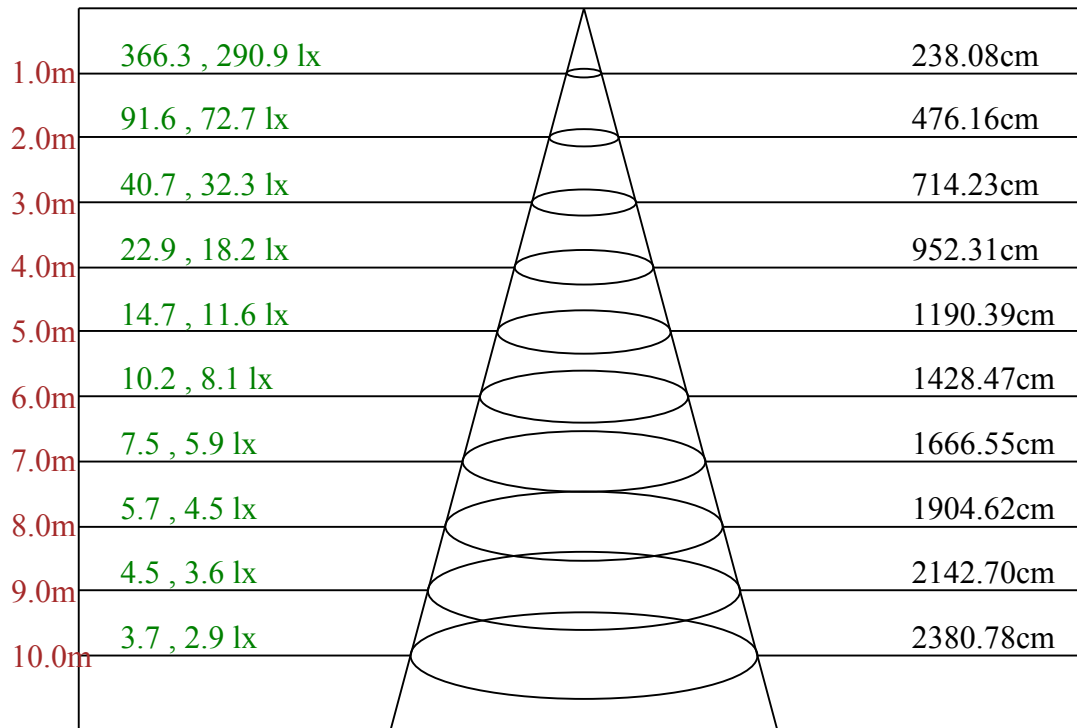


C0/C180: —

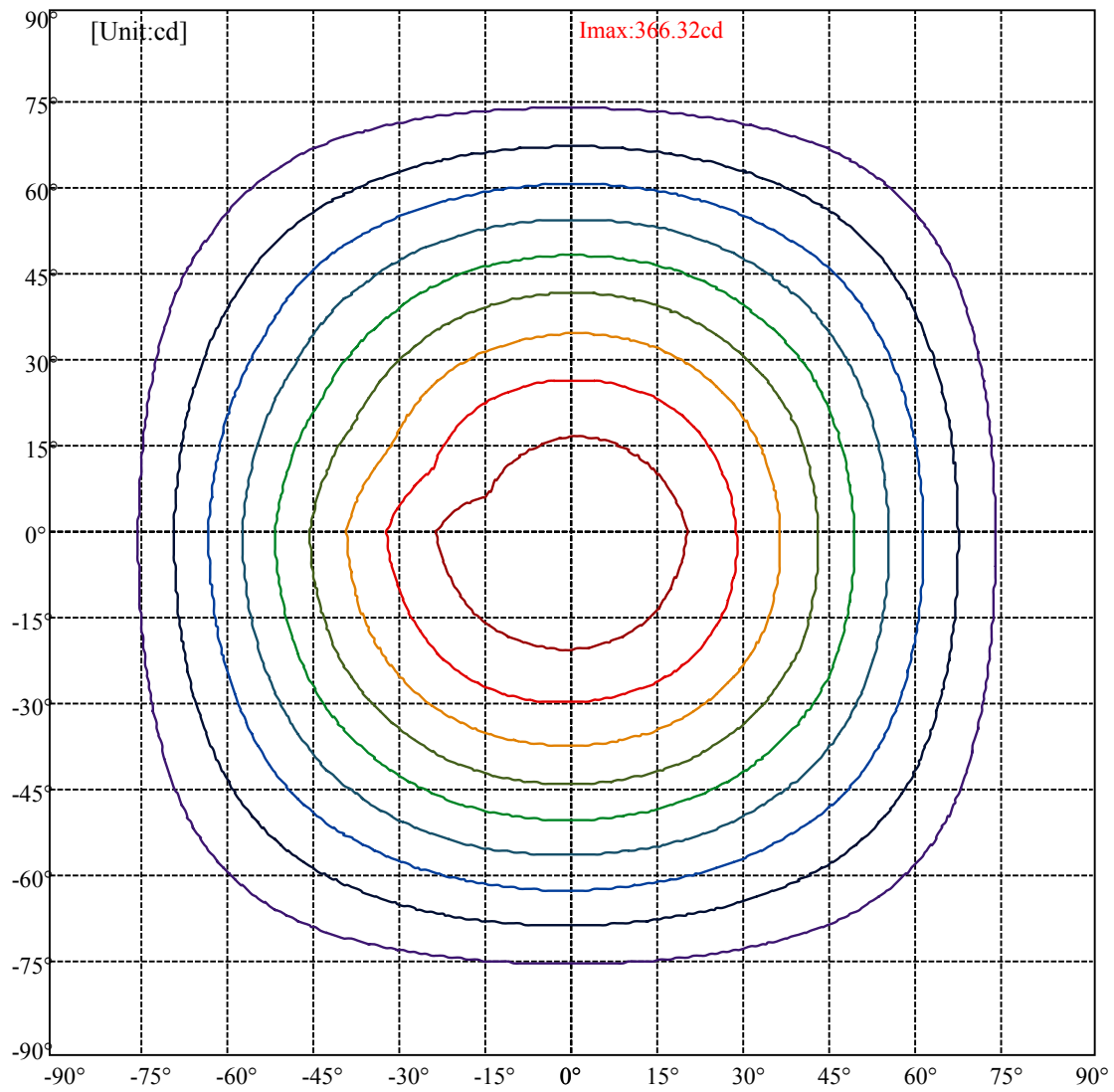
C90/C270: —

Field angle(10%Imax):C0/180Left:74.6 Right:73.0  
 :C90/270Left:74.7 Right:73.3

Beam Angle(50%Imax):C0/180Left:51.0 Right:48.7  
 :C90/270Left:50.7 Right:48.6



Max , Ave      Beam angle of C0plane99.88



(10%Imax) 36.6093	—
(20%Imax) 73.2186	—
(30%Imax) 109.828	—
(40%Imax) 146.437	—
(50%Imax) 183.047	—
(60%Imax) 219.656	—
(70%Imax) 256.265	—
(80%Imax) 292.874	—
(90%Imax) 329.484	—

## 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	366.32	362.46	354.97	344.75	329.30	308.64	285.70	261.40	233.92
22.5	360.87	357.24	349.97	339.07	324.53	305.23	282.75	257.76	231.42
45.0	358.60	354.97	347.24	336.57	321.13	303.87	280.70	255.04	226.88
67.5	356.10	352.69	345.20	334.75	319.99	299.55	277.98	253.68	226.20
90.0	354.51	351.56	342.25	333.16	319.08	297.74	275.93	251.86	226.20
112.5	353.60	349.74	342.70	331.35	317.27	298.42	275.93	251.41	225.06
135.0	353.15	349.51	342.93	331.80	317.27	299.32	277.52	251.86	224.61
157.5	352.47	349.29	342.93	330.89	317.49	297.74	275.71	251.18	225.97
180.0	366.32	365.19	361.10	353.38	340.89	323.40	301.60	276.84	248.91
202.5	360.87	360.42	357.01	348.38	337.25	319.08	297.51	273.21	247.09
225.0	358.60	358.37	353.83	345.65	334.07	317.95	295.92	271.39	243.46
247.5	356.10	355.87	352.01	344.75	331.57	314.54	293.42	268.21	241.64
270.0	354.51	353.83	350.88	341.79	330.44	311.82	289.56	265.71	239.37
292.5	353.60	353.15	349.06	341.34	329.76	312.04	290.24	265.94	239.37
315.0	353.15	353.83	348.15	340.43	329.08	312.27	291.38	266.62	238.91
337.5	352.47	352.92	347.93	340.43	328.39	311.13	290.24	265.94	238.91
360.0	366.32	362.46	354.97	344.75	329.30	308.64	285.70	261.40	233.92
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	205.08	175.10	144.67	114.01	83.12	52.92	25.89	11.13	4.54
22.5	202.35	171.46	140.35	110.37	79.71	51.10	26.12	11.36	4.77
45.0	198.26	168.51	137.85	107.42	78.35	50.64	27.25	11.13	4.77
67.5	198.49	169.88	139.67	108.78	79.49	52.01	25.89	10.90	4.32
90.0	198.04	169.19	139.22	109.69	81.30	52.92	26.12	10.90	4.09
112.5	197.81	168.29	138.08	107.19	79.49	51.78	27.25	11.13	4.32
135.0	195.99	166.01	136.72	106.97	77.44	50.42	27.93	11.81	4.77
157.5	198.26	168.74	139.44	109.24	79.71	51.55	26.34	11.58	5.22
180.0	220.07	189.86	157.61	125.14	94.93	63.59	34.29	13.40	6.59
202.5	216.89	185.55	153.07	122.18	90.62	60.64	34.52	14.08	6.59
225.0	212.80	181.91	151.25	119.23	88.34	60.18	34.29	15.22	6.36
247.5	212.12	181.68	152.16	119.91	89.93	60.41	33.61	13.40	5.91
270.0	211.21	181.46	150.57	121.27	90.62	61.09	34.07	12.95	5.91
292.5	210.30	179.64	149.66	118.10	87.66	58.37	33.16	13.63	5.45
315.0	210.07	178.05	147.39	115.82	85.62	57.69	32.48	14.31	5.91
337.5	210.53	180.32	148.75	117.87	87.21	57.69	31.34	12.49	6.13
360.0	205.08	175.10	144.67	114.01	83.12	52.92	25.89	11.13	4.54
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.45	0.23	0.45	0.23	0.23	0.23	0.45	0.45	0.23
22.5	0.23	0.45	0.23	0.45	0.45	0.68	0.68	0.68	0.68
45.0	0.68	0.23	0.45	0.68	0.45	0.45	0.45	0.68	0.68
67.5	0.45	0.45	0.45	0.45	0.45	0.45	0.68	0.68	0.68
90.0	0.45	0.68	0.45	0.45	0.68	0.68	0.68	0.68	0.68
112.5	0.68	0.23	0.45	0.45	0.45	0.45	0.68	0.68	0.68
135.0	0.45	0.68	0.45	0.45	0.68	0.68	0.68	0.45	0.68
157.5	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.68	0.68
180.0	0.45	0.00	0.00	0.00	0.23	0.00	0.45	0.23	0.23
202.5	0.45	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.23
225.0	0.68	0.00	0.00	0.00	0.23	0.00	0.23	0.45	0.45
247.5	0.68	0.23	0.00	0.00	0.23	0.00	0.23	0.23	0.45
270.0	0.45	0.00	0.00	0.00	0.00	0.45	0.23	0.45	0.23
292.5	0.45	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.23
315.0	0.45	0.00	0.23	0.23	0.23	0.23	0.23	0.45	0.45
337.5	0.45	0.00	0.00	0.23	0.23	0.23	0.45	0.45	0.23
360.0	0.45	0.23	0.45	0.23	0.23	0.23	0.45	0.45	0.23

Equipment: GMS-3000  
Temperature(°C): 25Date:  
Humidity(%): 58%

Operator: Zac

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**Intensity data(cd)**

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<b>C/γ(°)</b>	<b>135.0</b>	<b>140.0</b>	<b>145.0</b>	<b>150.0</b>	<b>155.0</b>	<b>160.0</b>	<b>165.0</b>	<b>170.0</b>	<b>175.0</b>
<b>0.0</b>	<b>0.45</b>	<b>0.68</b>	<b>0.45</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>
<b>22.5</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.91</b>	<b>0.91</b>	<b>0.91</b>	<b>0.68</b>	<b>0.68</b>
<b>45.0</b>	<b>0.68</b>	<b>0.45</b>	<b>0.68</b>	<b>0.91</b>	<b>0.91</b>	<b>0.68</b>	<b>0.91</b>	<b>0.68</b>	<b>0.91</b>
<b>67.5</b>	<b>0.91</b>	<b>0.91</b>	<b>0.68</b>	<b>0.91</b>	<b>0.91</b>	<b>0.91</b>	<b>0.68</b>	<b>0.91</b>	<b>0.91</b>
<b>90.0</b>	<b>0.45</b>	<b>0.68</b>	<b>0.45</b>	<b>0.91</b>	<b>0.68</b>	<b>0.91</b>	<b>1.14</b>	<b>0.68</b>	<b>0.68</b>
<b>112.5</b>	<b>0.68</b>	<b>0.91</b>	<b>0.91</b>	<b>0.91</b>	<b>0.91</b>	<b>0.91</b>	<b>0.91</b>	<b>0.68</b>	<b>1.14</b>
<b>135.0</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.91</b>	<b>0.68</b>	<b>0.68</b>	<b>0.91</b>	<b>0.68</b>	<b>0.91</b>
<b>157.5</b>	<b>0.91</b>	<b>0.91</b>	<b>0.68</b>	<b>0.91</b>	<b>0.91</b>	<b>0.68</b>	<b>0.91</b>	<b>0.68</b>	<b>0.91</b>
<b>180.0</b>	<b>0.23</b>	<b>0.45</b>	<b>0.45</b>	<b>0.45</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>
<b>202.5</b>	<b>0.45</b>	<b>0.45</b>	<b>0.45</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.91</b>	<b>1.14</b>
<b>225.0</b>	<b>0.45</b>	<b>0.45</b>	<b>0.45</b>	<b>0.23</b>	<b>0.68</b>	<b>0.68</b>	<b>0.91</b>	<b>0.68</b>	<b>0.91</b>
<b>247.5</b>	<b>0.45</b>	<b>0.23</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.91</b>	<b>1.14</b>	<b>0.68</b>
<b>270.0</b>	<b>0.45</b>	<b>0.45</b>	<b>0.45</b>	<b>0.91</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.91</b>	<b>0.91</b>
<b>292.5</b>	<b>0.23</b>	<b>0.45</b>	<b>0.68</b>	<b>0.45</b>	<b>0.68</b>	<b>0.68</b>	<b>0.91</b>	<b>0.91</b>	<b>0.91</b>
<b>315.0</b>	<b>0.23</b>	<b>0.45</b>	<b>0.45</b>	<b>0.68</b>	<b>0.68</b>	<b>0.91</b>	<b>0.68</b>	<b>0.68</b>	<b>0.45</b>
<b>337.5</b>	<b>0.45</b>	<b>0.45</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.45</b>	<b>0.68</b>	<b>0.91</b>	<b>0.91</b>
<b>360.0</b>	<b>0.45</b>	<b>0.68</b>	<b>0.45</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>
<b>C/γ(°)</b>	<b>180.0</b>								
<b>0.0</b>	<b>0.68</b>								
<b>22.5</b>	<b>1.14</b>								
<b>45.0</b>	<b>0.91</b>								
<b>67.5</b>	<b>0.68</b>								
<b>90.0</b>	<b>0.68</b>								
<b>112.5</b>	<b>0.91</b>								
<b>135.0</b>	<b>0.68</b>								
<b>157.5</b>	<b>0.68</b>								
<b>180.0</b>	<b>0.68</b>								
<b>202.5</b>	<b>1.14</b>								
<b>225.0</b>	<b>0.91</b>								
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<b>270.0</b>	<b>0.68</b>								
<b>292.5</b>	<b>0.91</b>								
<b>315.0</b>	<b>0.68</b>								
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<b>360.0</b>	<b>0.68</b>								