
LumCAT: 3-1884-L	
Luminaire: 92.70.131.00	
Report No: NATA0100	Voltage(V): 34.2800
Test No: GC2019120502	Current(A): 0.4470
LampCAT: TRIDONIC SLE G7 15MM	Power (W): 15.3230
Lamp flux(lm): 2032.0	PF: 1.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1985.01
Efficiency(%): 97.69%
Lumens(lm)/Power(W): 129.54
Central intensity(cd): 4530.516
Maximum intensity(cd): 4530.516
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=36.4
[C90/270]Total=36.4
Field angle(10%Imax): [C0/180]Total=66.1
[C90/270]Total=66.1
Maximum s/h(1/2): C0_180=0.61 C90_270=0.61
Maximum s/h(1/4): C0_180=0.58 C90_270=0.58
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 97.69%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.338%

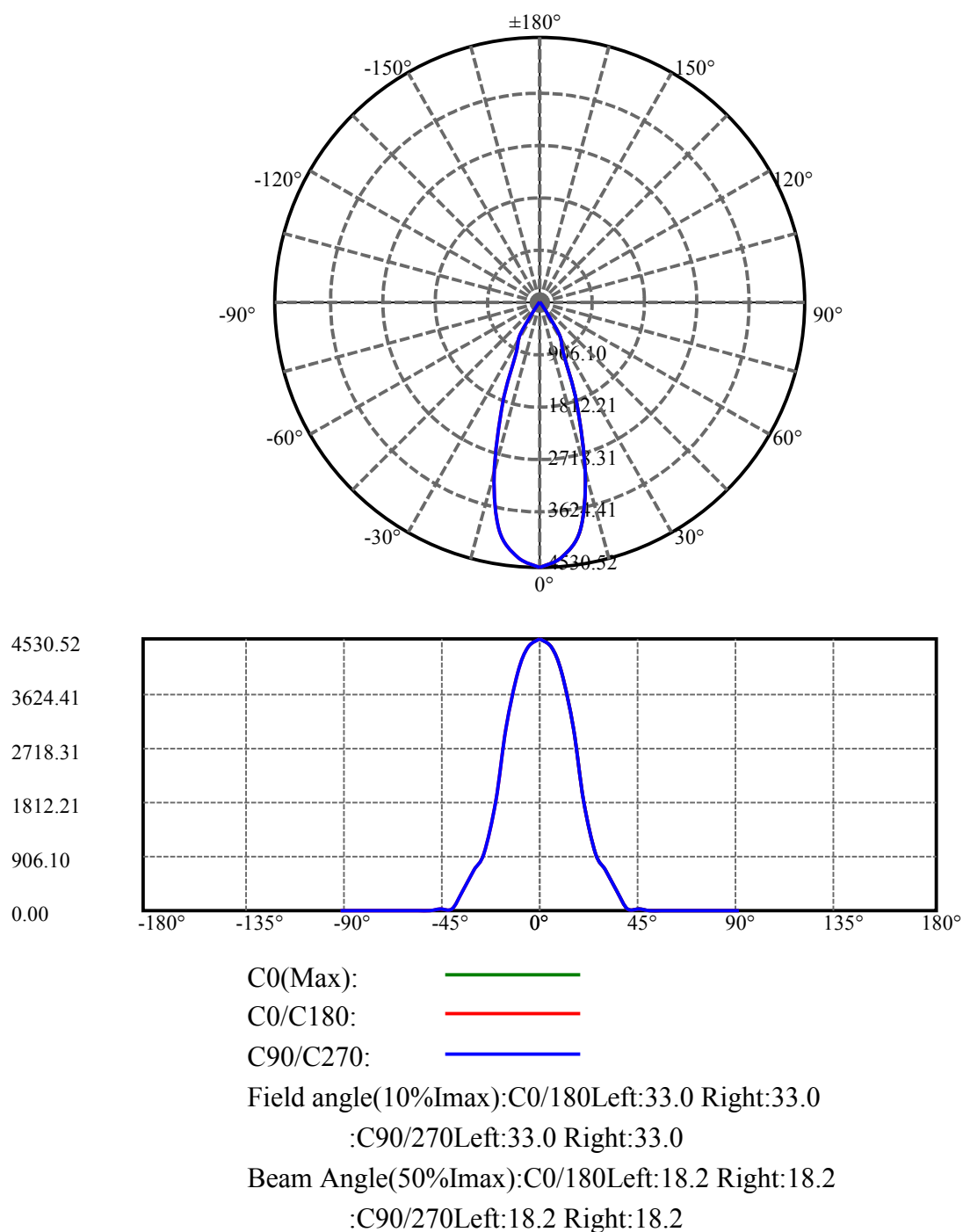
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4530.516	0.000	0	.000%	.000%
5.0	4380.750	106.532	106.532	5.243%	5.367%
10.0	3968.859	298.692	405.223	14.699%	20.414%
15.0	3051.211	416.426	821.649	20.493%	41.393%
20.0	1831.008	402.363	1224.013	19.801%	61.663%
25.0	947.341	291.398	1515.41	14.340%	76.343%
30.0	669.263	204.583	1719.993	10.068%	86.649%
35.0	313.052	144.653	1864.646	7.119%	93.937%
40.0	41.632	59.176	1923.822	2.912%	96.918%
45.0	16.685	10.798	1934.62	.531%	97.462%
50.0	13.718	6.143	1940.763	.302%	97.771%
55.0	12.417	5.683	1946.446	.280%	98.057%
60.0	11.707	5.576	1952.022	.274%	98.338%
65.0	11.313	5.596	1957.618	.275%	98.620%
70.0	10.976	5.644	1963.262	.278%	98.905%
75.0	10.434	5.596	1968.858	.275%	99.187%
80.0	10.048	5.480	1974.339	.270%	99.463%
85.0	9.802	5.394	1979.732	.265%	99.734%
90.0	9.457	5.273	1985.006	.260%	100.000%

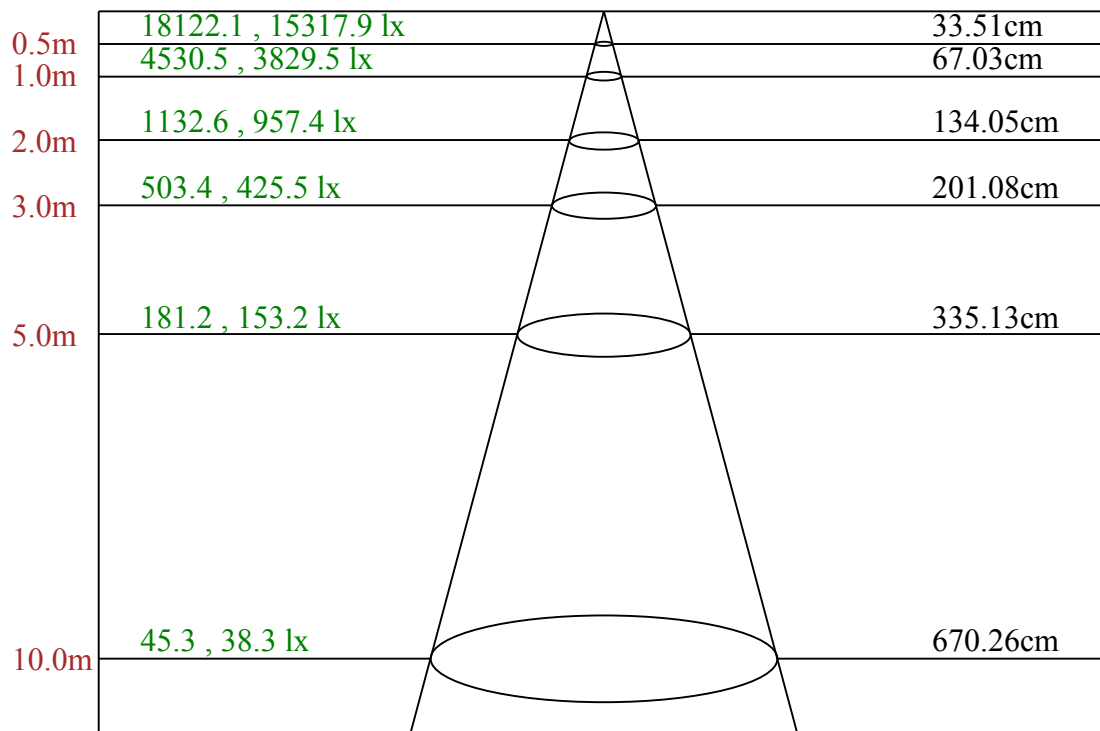
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1719.99	84.65%	86.65%
0-40	1923.82	94.68%	96.92%
0-60	1952.02	96.06%	98.34%
0-90	1979.73	97.43%	99.73%
0-120	1979.73	97.43%	99.73%
0-180	1985.01	97.69%	100.00%
60-90	33.29	1.64%	1.68%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.77	1588.01	78.15%	80.00%

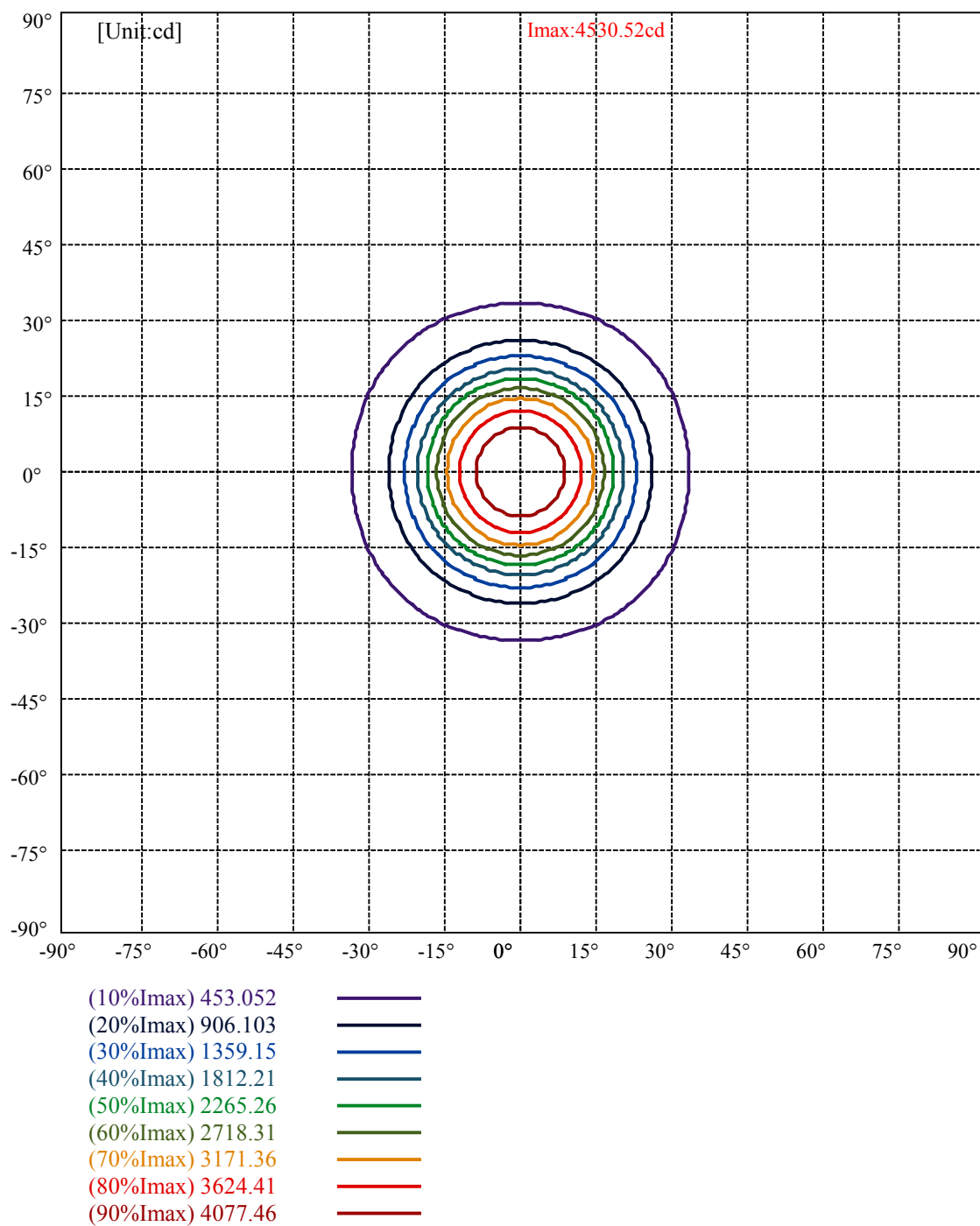
ZONAL LUMEN SUMMARY

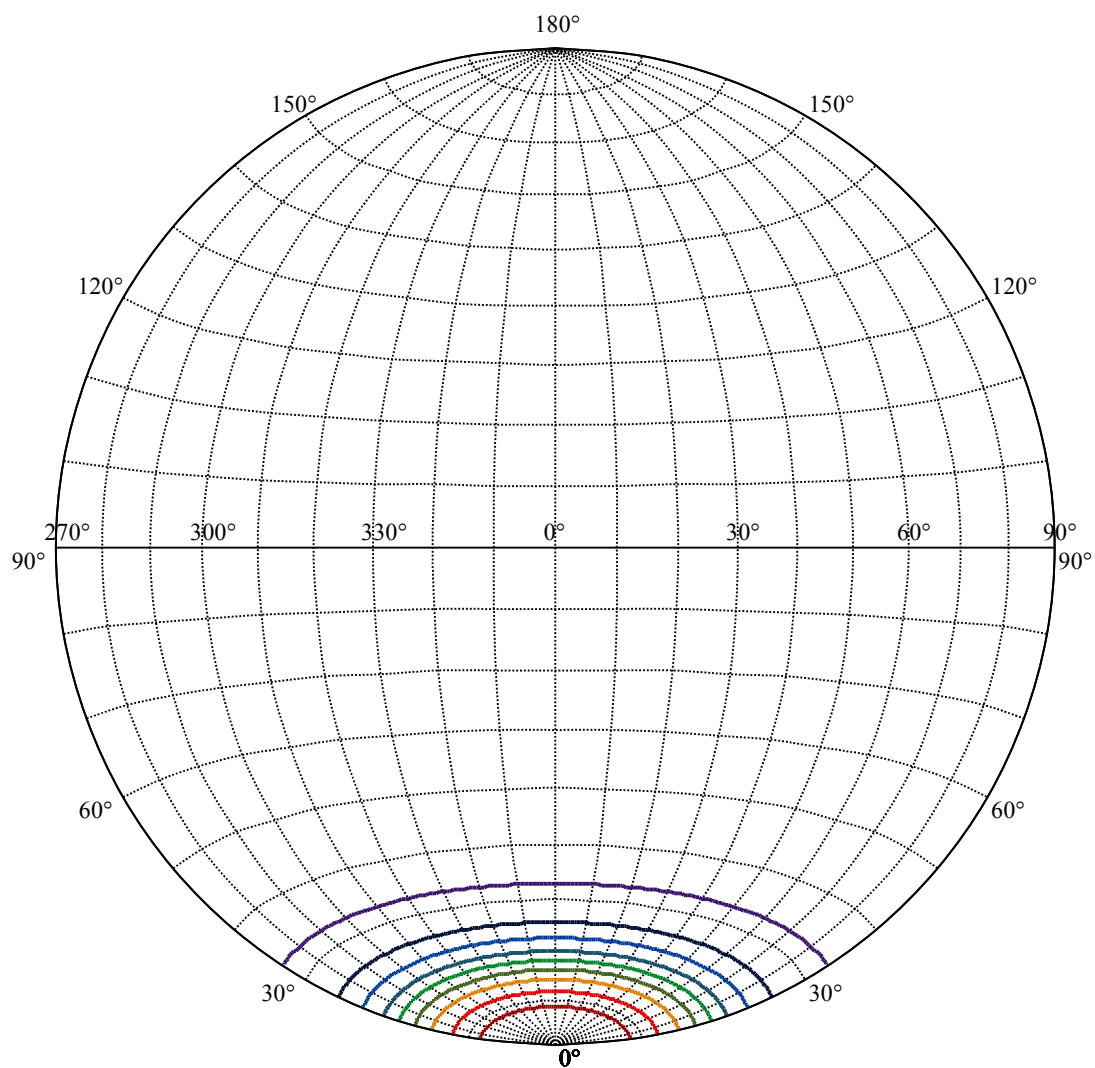
0-10	405.22
10-20	818.79
20-30	495.98
30-40	203.83
40-50	16.94
50-60	11.26
60-70	11.24
70-80	11.08
80-90	5.39
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0 plane 37.05





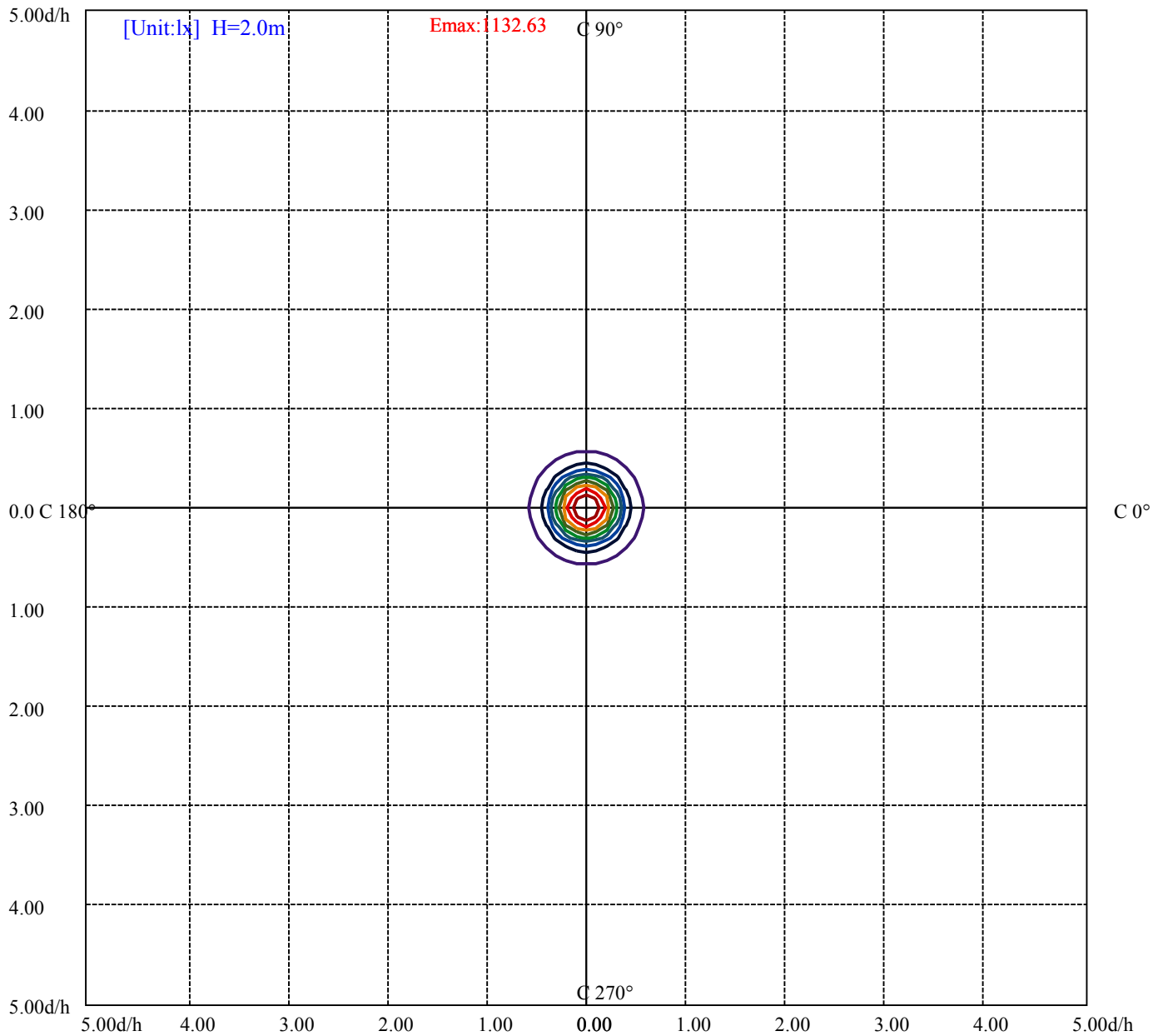
House

[Unit:cd]

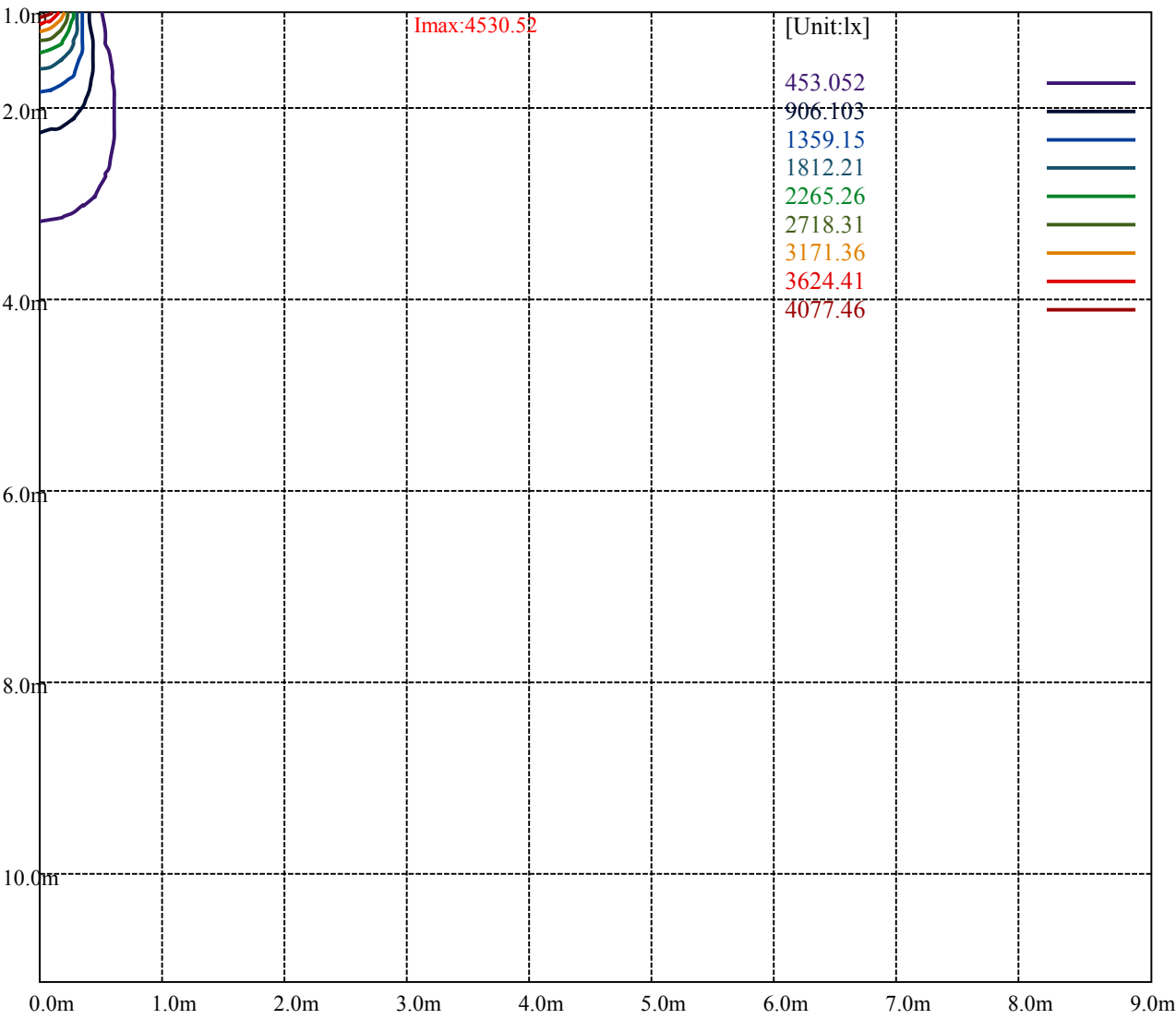
Road

Imax:4530.52

(10%Imax)	453.052	
(20%Imax)	906.103	
(30%Imax)	1359.15	
(40%Imax)	1812.21	
(50%Imax)	2265.26	
(60%Imax)	2718.31	
(70%Imax)	3171.36	
(80%Imax)	3624.41	
(90%Imax)	4077.46	



(10%E _{max}) 113.2627	—
(20%E _{max}) 226.5255	—
(30%E _{max}) 339.7875	—
(40%E _{max}) 453.05	—
(50%E _{max}) 566.315	—
(60%E _{max}) 679.5775	—
(70%E _{max}) 792.84	—
(80%E _{max}) 906.1025	—
(90%E _{max}) 1019.365	—



Luminance Table

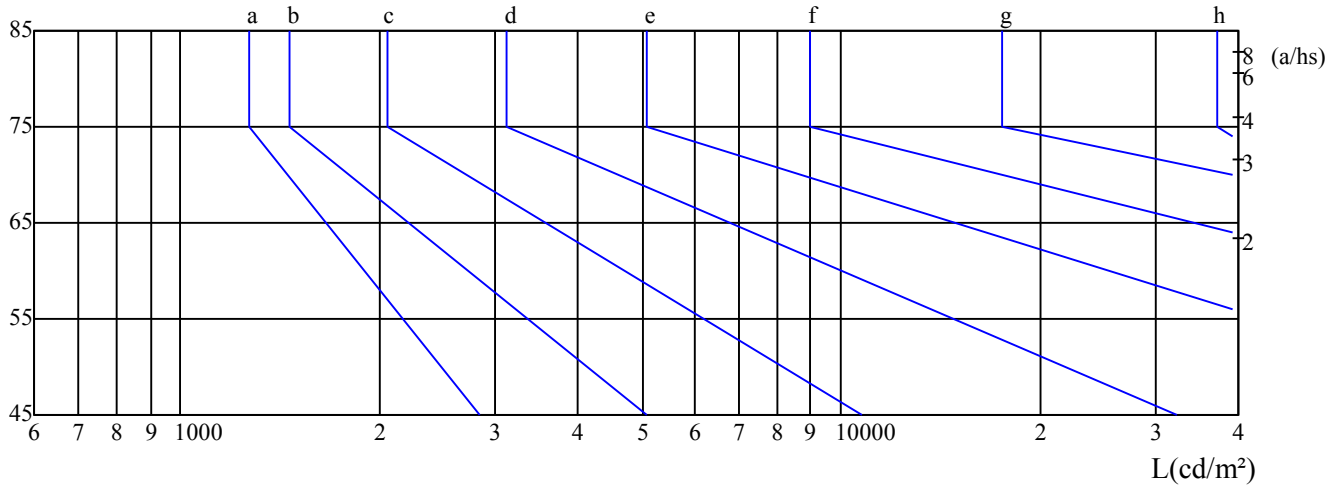
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

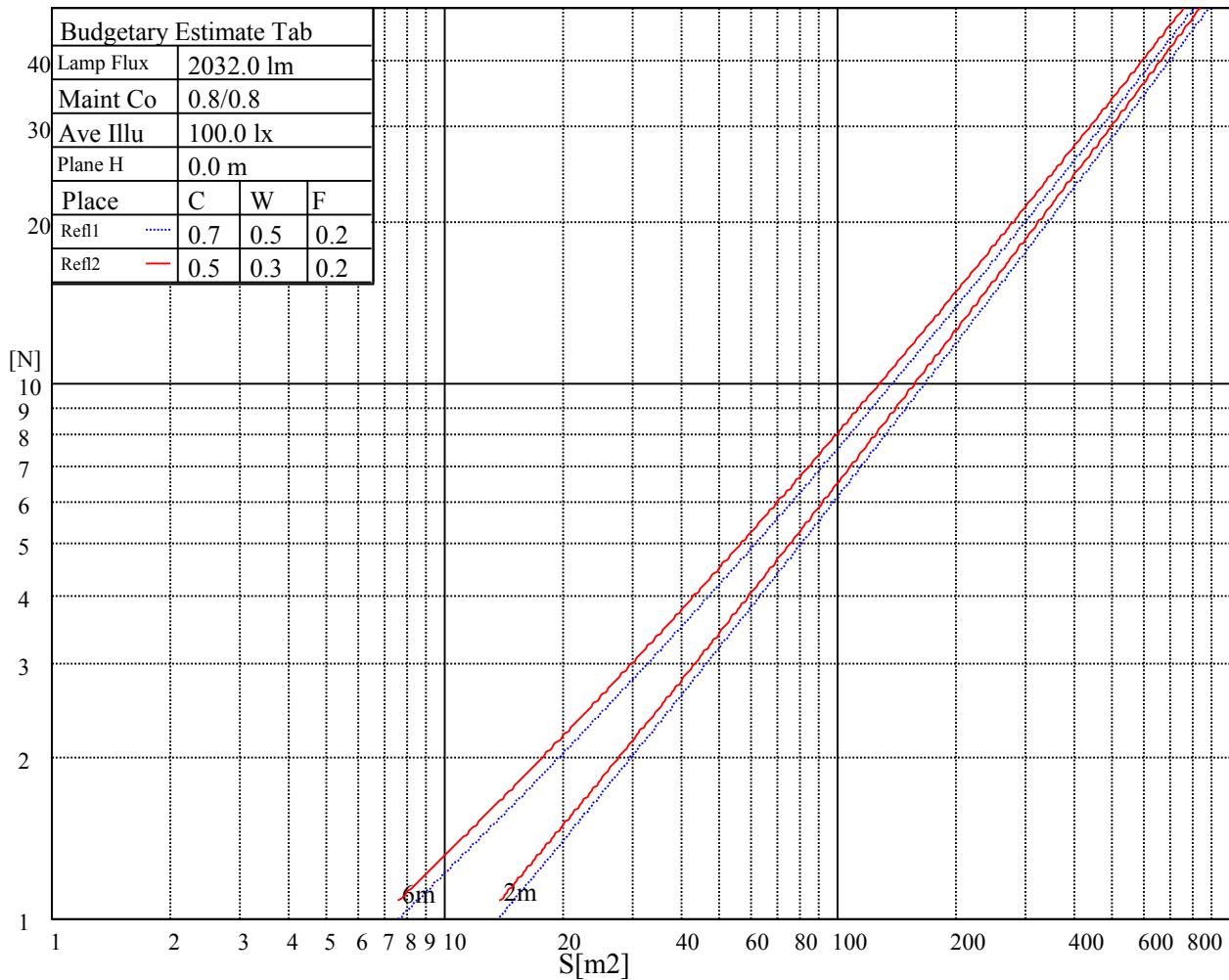
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

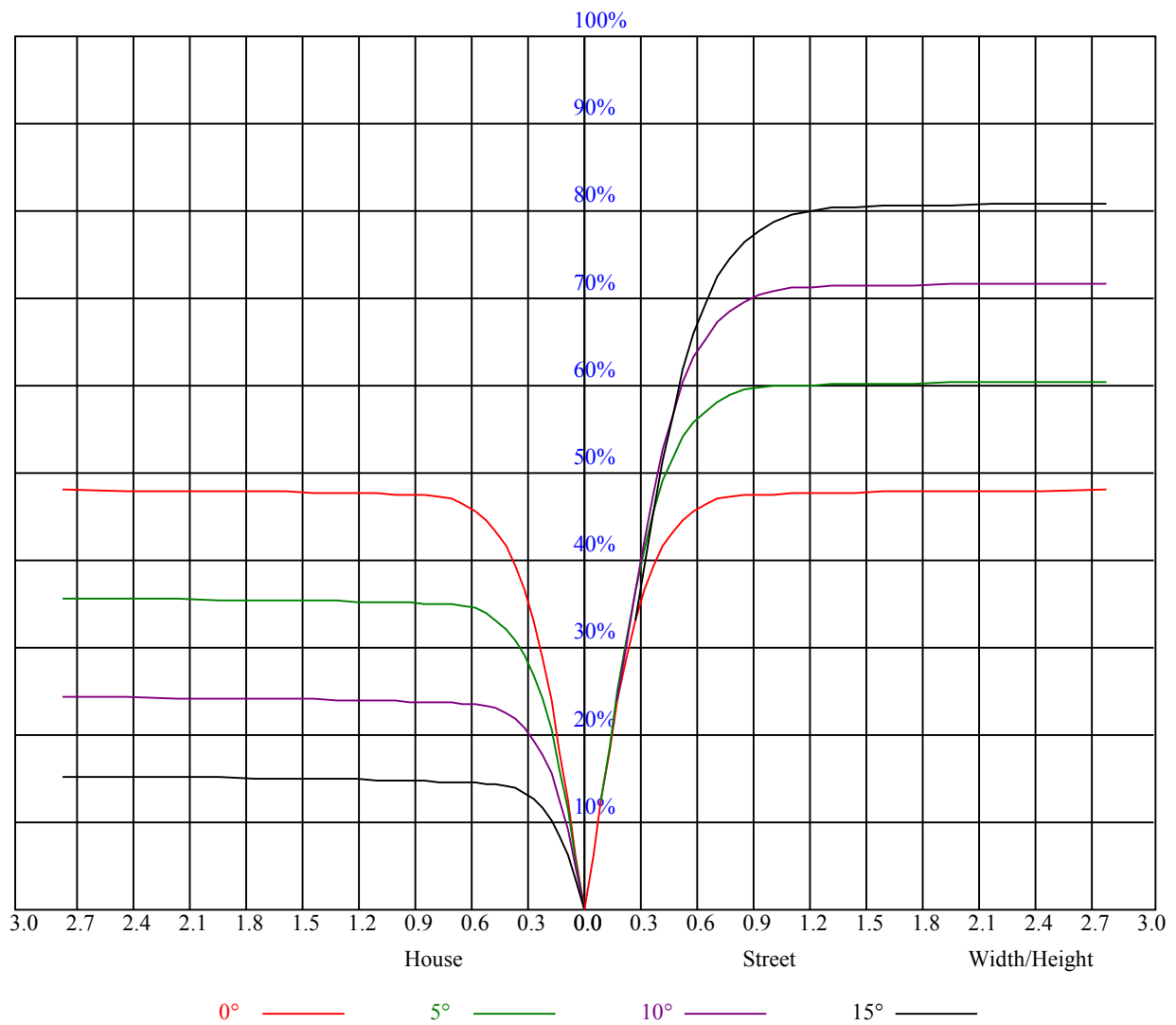
C0 ———

C45 ———

C90 ———



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.16	1.16	1.16	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.09	1.07	1.05	1.07	1.05	1.03	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.92
2	1.03	0.99	0.96	1.01	0.98	0.95	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.91	0.89	0.88
3	0.97	0.93	0.89	0.96	0.92	0.89	0.93	0.90	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.83
4	0.92	0.88	0.84	0.91	0.87	0.83	0.89	0.85	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.79
5	0.88	0.83	0.79	0.87	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.76
6	0.84	0.79	0.75	0.83	0.78	0.75	0.82	0.78	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.72
7	0.80	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
8	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
9	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.64
10	0.71	0.66	0.63	0.70	0.66	0.63	0.70	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61



Intensity data(cd)										Appendix Page: 14 Total:14	
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	4520.25	4435.88	4052.25	3161.81	1972.69	979.88	696.94	357.75	34.09		
45.0	4550.06	4205.25	3628.69	2800.13	1617.75	817.88	635.63	290.25	22.50		
90.0	4505.63	3993.75	3345.75	2575.69	1311.75	836.78	540.96	157.22	22.89		
135.0	4546.13	4255.31	3620.25	2820.94	1975.50	1074.94	726.75	291.38	39.49		
180.0	4520.25	4360.50	3897.56	2906.44	1773.00	922.22	658.86	279.28	28.18		
225.0	4550.06	4583.25	4403.81	3228.75	1803.94	845.27	655.20	345.66	48.99		
270.0	4505.63	4636.13	4545.56	3641.63	2177.44	1041.19	685.13	425.81	96.19		
315.0	4546.13	4575.94	4257.00	3274.31	2016.00	1060.59	754.65	357.08	40.73		
360.0	4520.25	4435.88	4052.25	3161.81	1972.69	979.88	696.94	357.75	34.09		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	15.41	13.33	12.38	11.70	11.42	10.97	10.52	10.07	9.79		
45.0	14.12	12.43	11.53	11.14	10.97	10.69	10.24	9.90	9.68		
90.0	14.96	13.28	12.43	11.93	11.53	11.03	10.58	10.29	9.84		
135.0	20.03	15.08	13.16	12.26	11.70	11.31	10.52	10.01	9.79		
180.0	15.36	13.28	12.32	11.87	11.42	11.08	10.41	10.01	9.79		
225.0	15.24	12.99	11.81	11.03	10.74	10.63	10.24	9.96	9.73		
270.0	19.24	14.12	12.71	11.87	11.31	11.08	10.58	10.18	10.07		
315.0	19.13	15.24	12.99	11.87	11.42	11.03	10.41	9.96	9.73		
360.0	15.41	13.33	12.38	11.70	11.42	10.97	10.52	10.07	9.79		
C/γ(°)	90.0										
0.0	9.51										
45.0	9.39										
90.0	9.45										
135.0	9.45										
180.0	9.45										
225.0	9.45										
270.0	9.51										
315.0	9.45										
360.0	9.51										