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Nata

LumCAT: 1-0943-N	
Luminaire: 92.70.259.00	
Report No: 200923-B044	Voltage(V): 230.9000
Test No: 200923-C044	Current(A): 0.0910
LampCAT: BRIDGELUX V6HD	Power (W): 11.4100
Lamp flux(lm): 1100.5	PF: 0.5400
Number of Lamps: 1	Ballast type: AC
Length(feet)(ft.):0.000	Width(feet)(ft.):0.000
Phm Type: C	Height(feet)(ft.):0.000

Photometric Results

Lumens(lm): 811.22
Efficiency(%): 73.72%
Lumens(lm)/Power(W): 71.10
Central intensity(cd): 1581.426
Maximum intensity(cd): 1581.426
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=44.4
[C90/270]Total=44.4
Field angle(10%Imax): [C0/180]Total=64.3
[C90/270]Total=64.3
Maximum s/h(1/2): C0_180=0.72 C90_270=0.72
Maximum s/h(1/4): C0_180=0.69 C90_270=0.69
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 74.51%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.262%

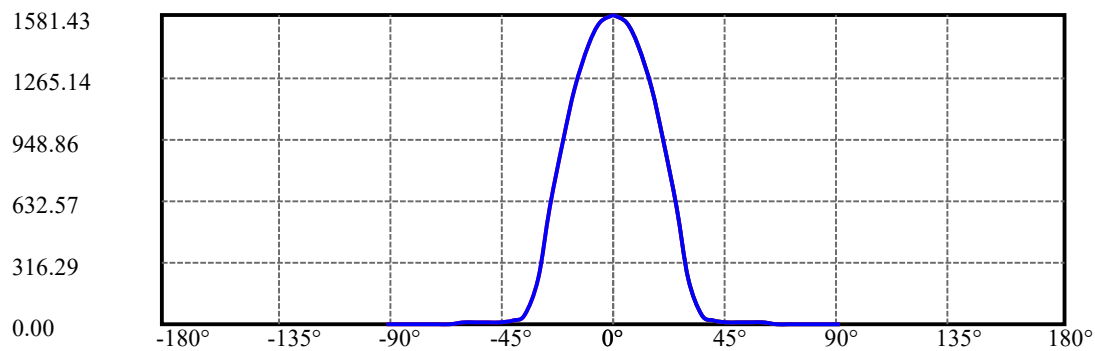
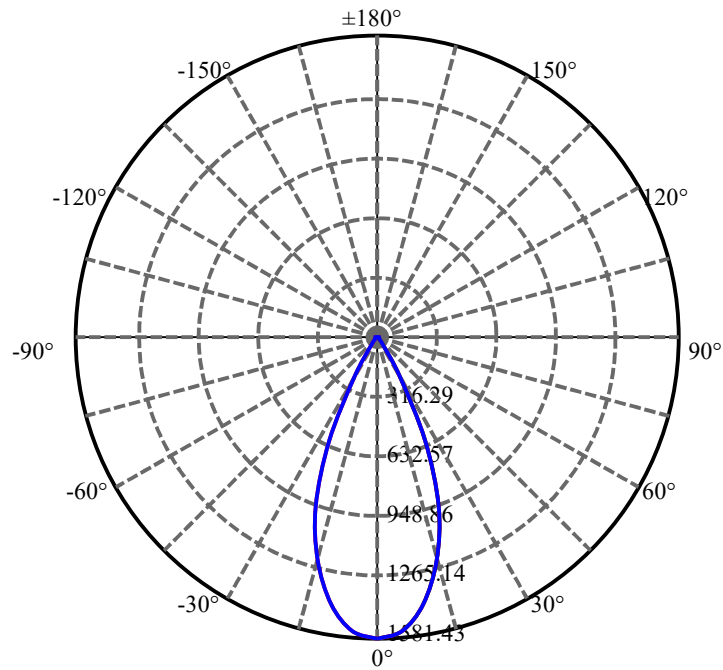
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1581.426	9.457	9.457	.859%	1.166%
5.0	1542.331	73.682	83.14	6.696%	10.249%
10.0	1420.812	135.237	218.377	12.289%	26.919%
15.0	1206.313	171.138	389.514	15.551%	48.016%
20.0	941.483	176.504	566.018	16.039%	69.773%
25.0	600.604	139.132	705.15	12.643%	86.924%
30.0	238.525	65.372	770.522	5.940%	94.983%
35.0	50.092	15.749	786.271	1.431%	96.924%
40.0	17.274	6.086	792.357	.553%	97.674%
45.0	11.201	4.341	796.698	.394%	98.210%
50.0	8.672	3.641	800.34	.331%	98.658%
55.0	6.647	2.985	803.324	.271%	99.026%
60.0	4.925	2.338	805.662	.212%	99.314%
65.0	3.550	1.764	807.425	.160%	99.532%
70.0	2.523	1.300	808.725	.118%	99.692%
75.0	1.874	0.992	809.717	.090%	99.814%
80.0	1.357	0.733	810.45	.067%	99.905%
85.0	1.177	0.643	811.093	.058%	99.984%
90.0	0.476	0.130	811.223	.012%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	770.52	70.02%	94.98%
0-40	792.36	72.00%	97.67%
0-60	805.66	73.21%	99.31%
0-90	811.09	73.70%	99.98%
0-120	811.09	73.70%	99.98%
0-180	811.22	73.72%	100.00%
60-90	7.77	0.71%	0.96%
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%
0-22.98	648.98	58.97%	80.00%

ZONAL LUMEN SUMMARY

0-10	218.38
10-20	347.64
20-30	204.50
30-40	21.84
40-50	7.98
50-60	5.32
60-70	3.06
70-80	1.72
80-90	0.64
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

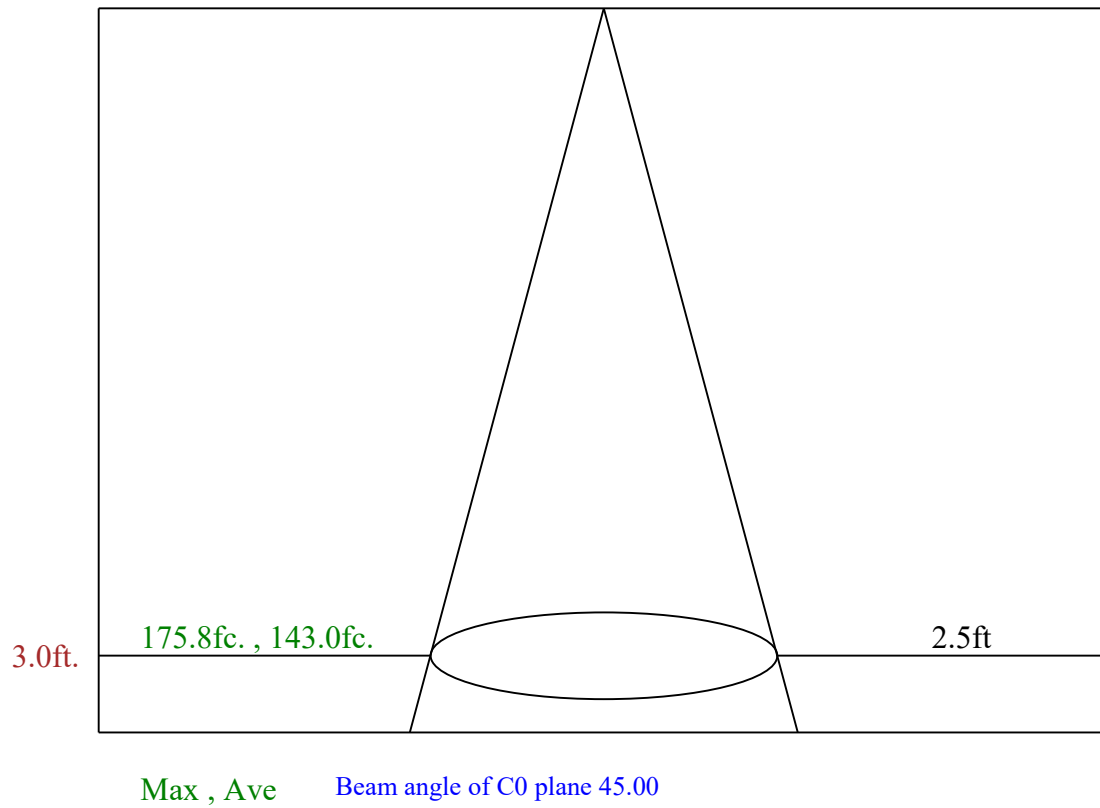
C0(Max): —————C0/C180: —————C90/C270: —————

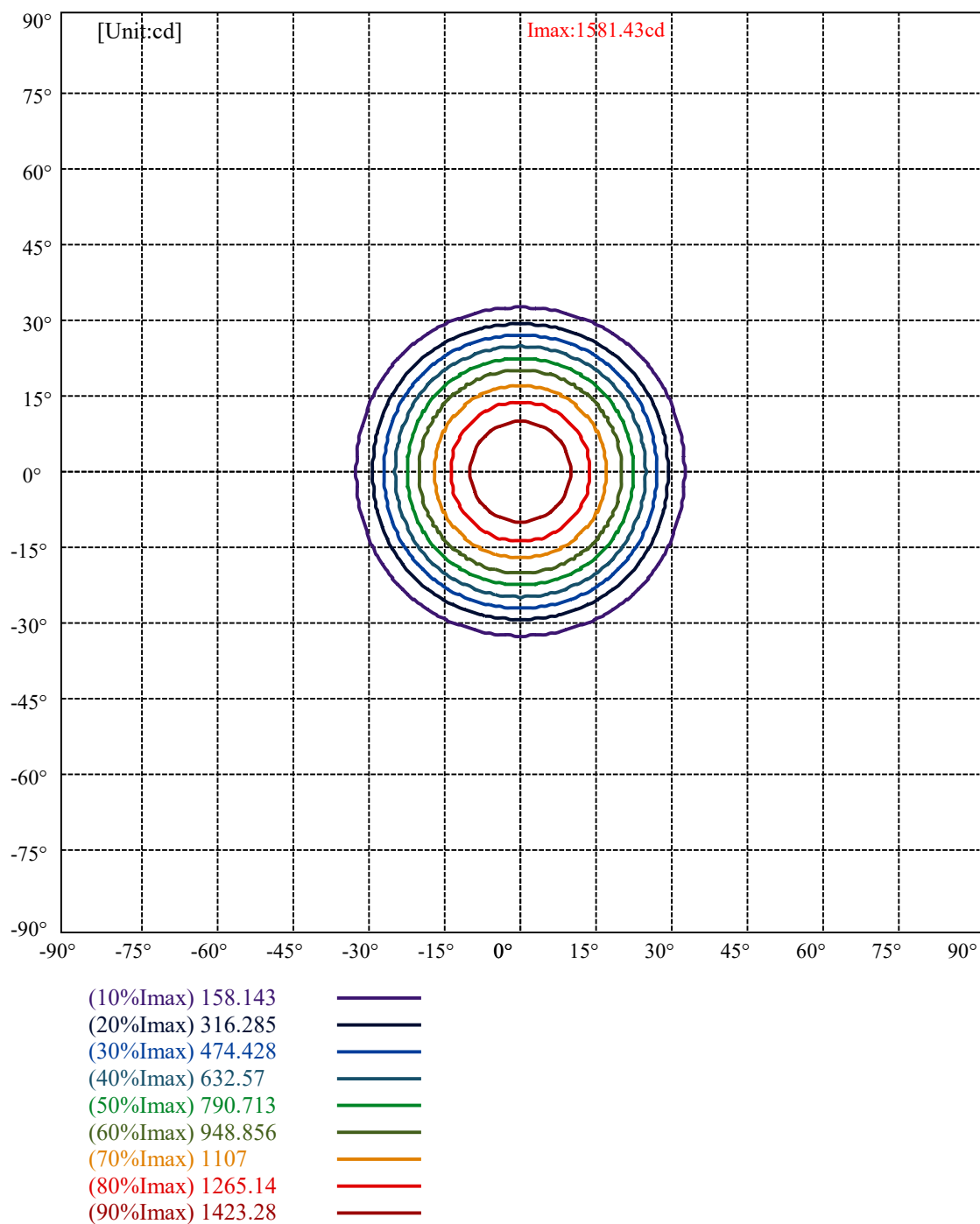
Field angle(10%Imax):C0/180Left:32.1 Right:32.1

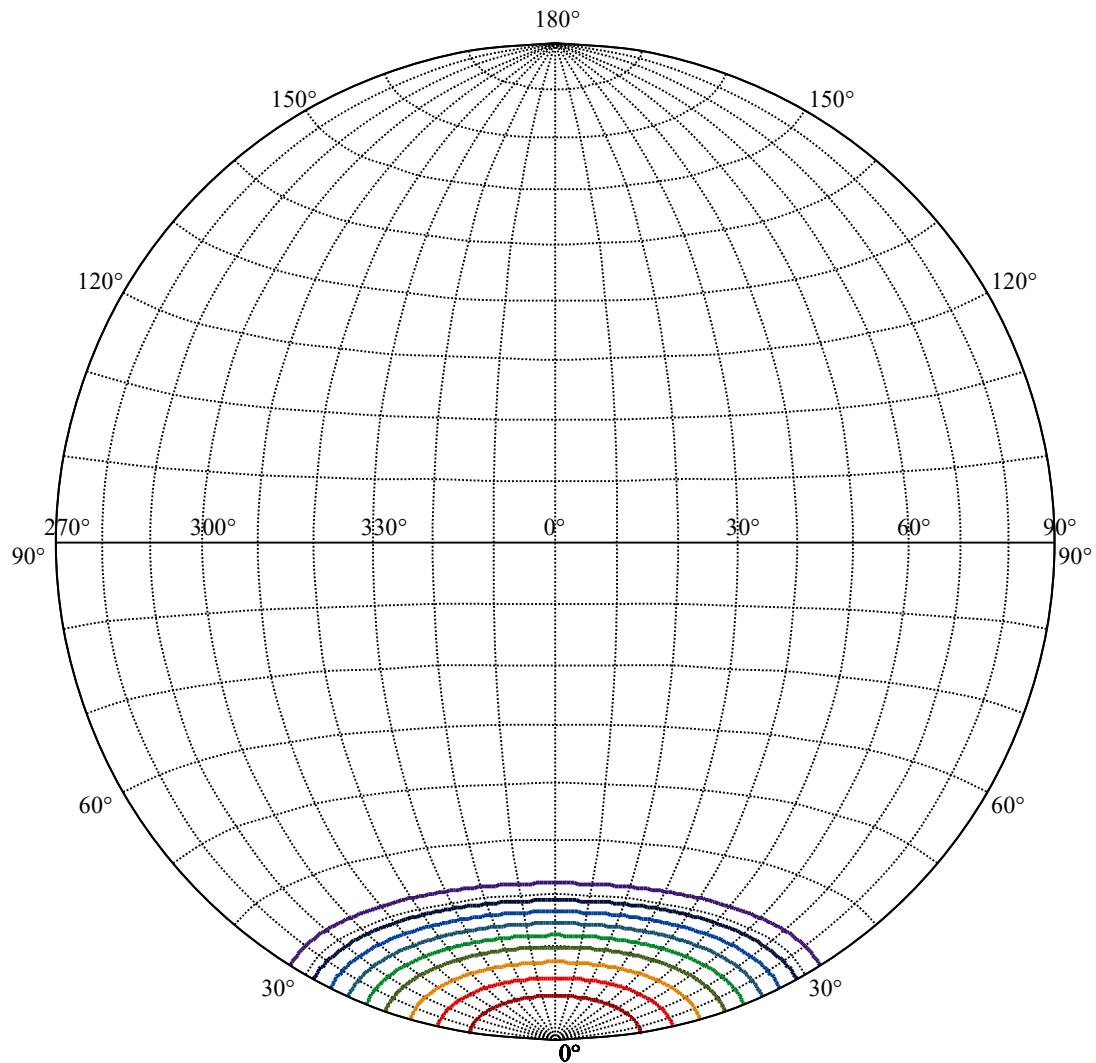
:C90/270Left:32.1 Right:32.1

Beam Angle(50%Imax):C0/180Left:22.2 Right:22.2

:C90/270Left:22.2 Right:22.2







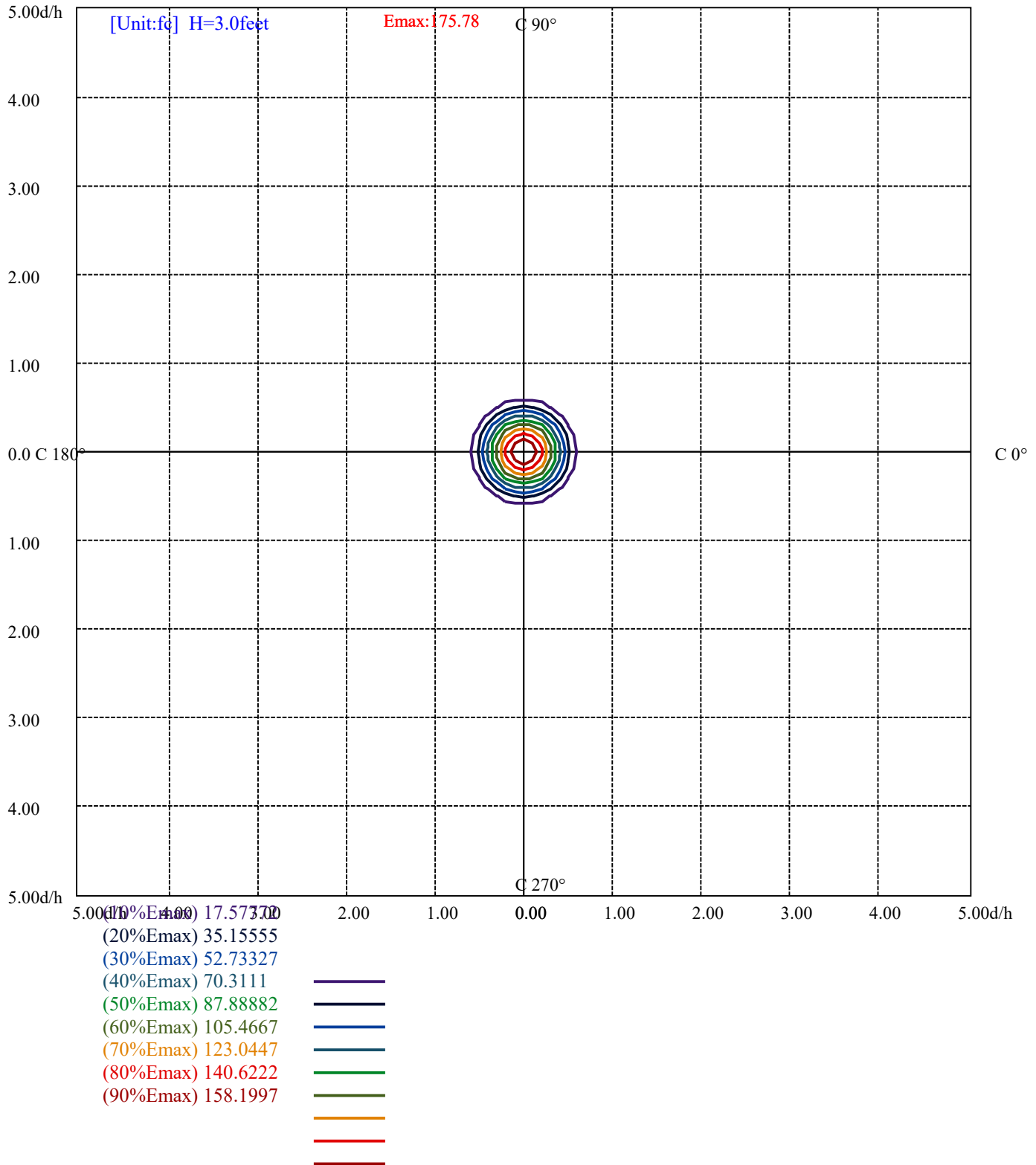
House

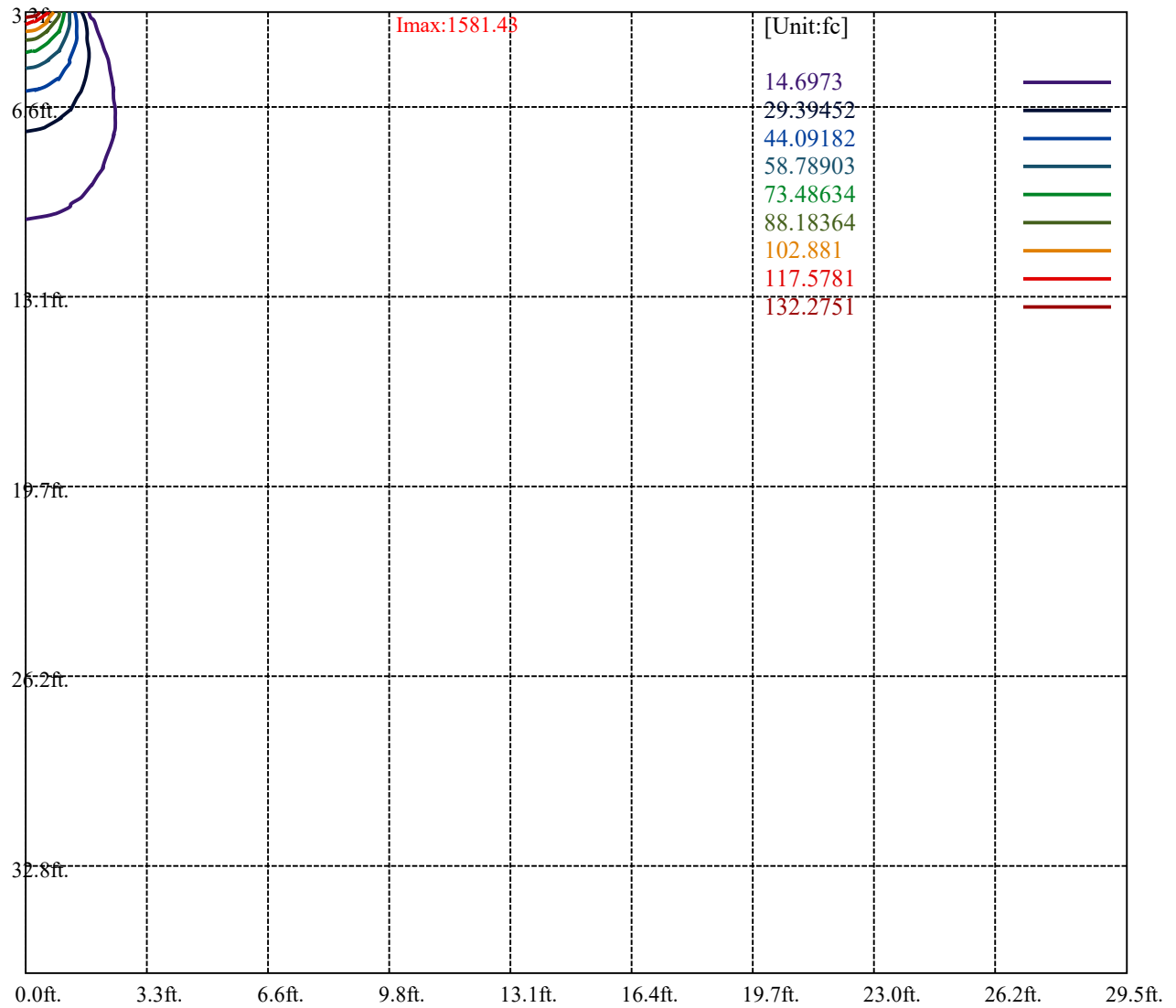
[Unit:cd]

Road

Imax:1581.43

(10%Imax)	158.143	—
(20%Imax)	316.285	—
(30%Imax)	474.428	—
(40%Imax)	632.57	—
(50%Imax)	790.713	—
(60%Imax)	948.856	—
(70%Imax)	1107	—
(80%Imax)	1265.14	—
(90%Imax)	1423.28	—





Luminance Table

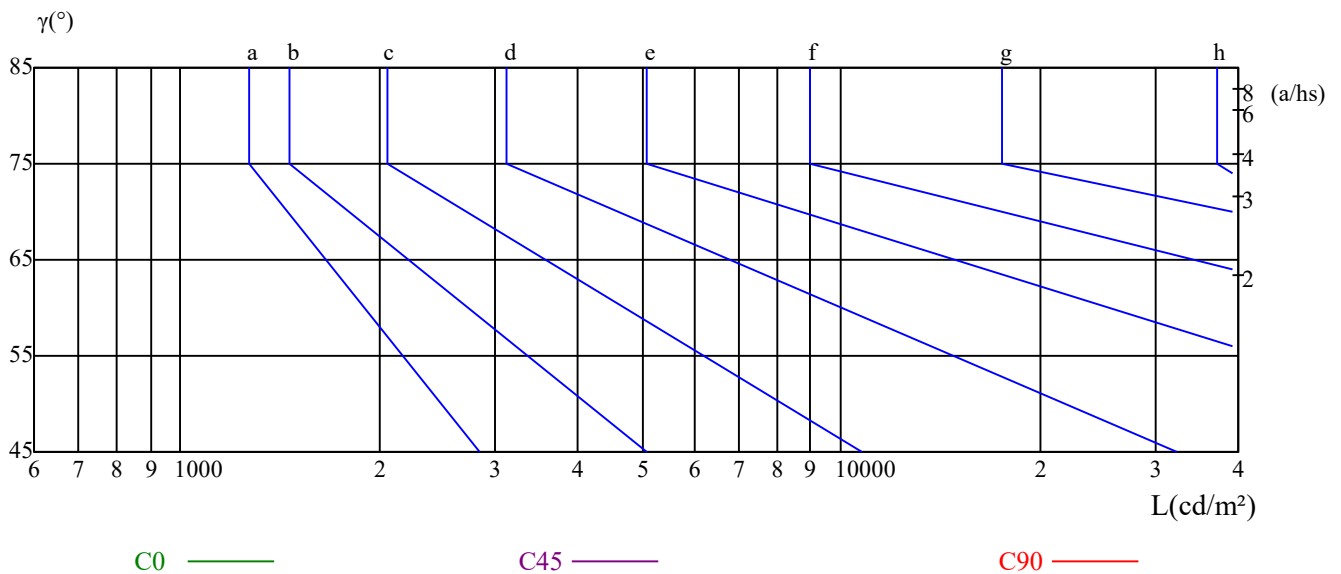
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

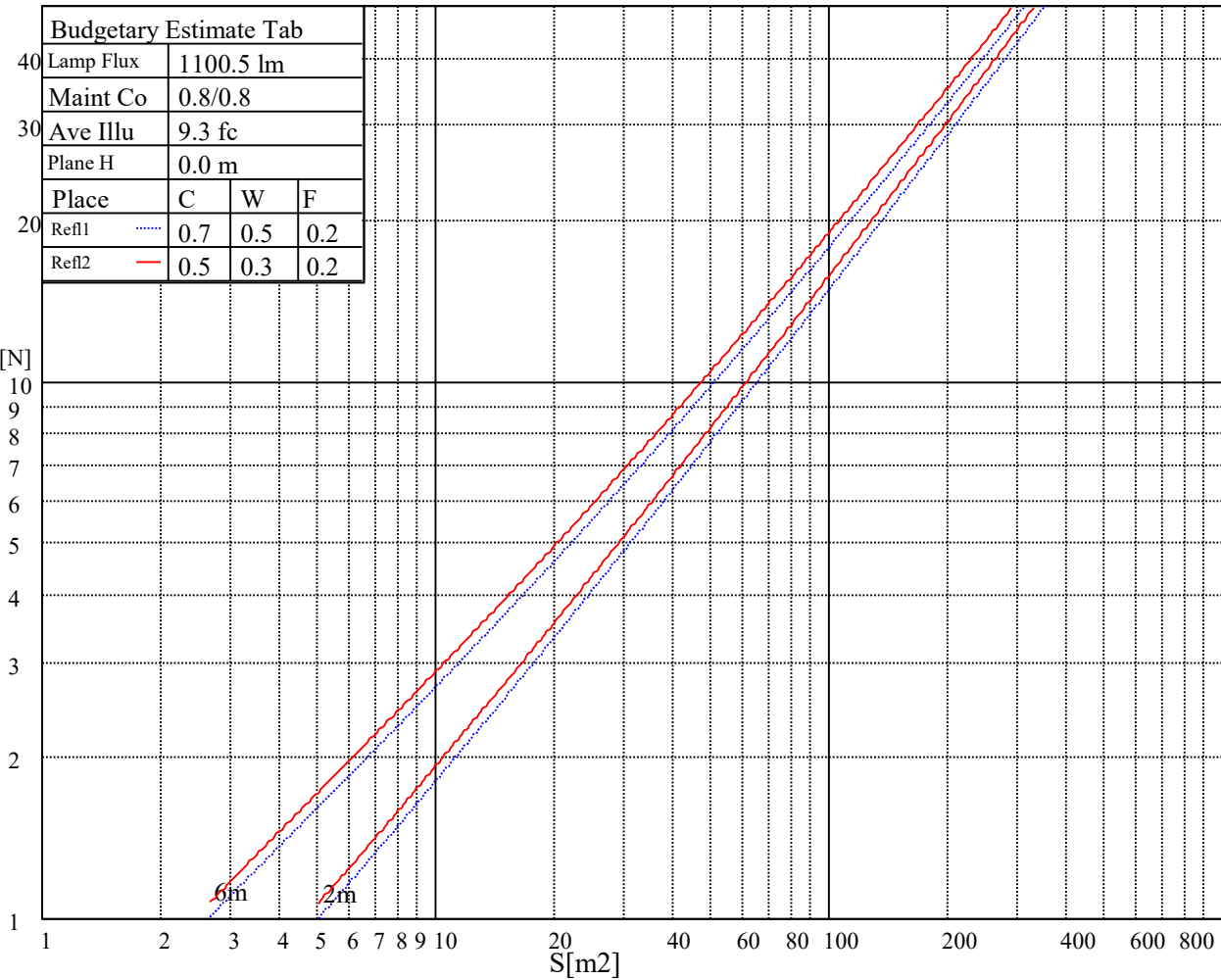
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

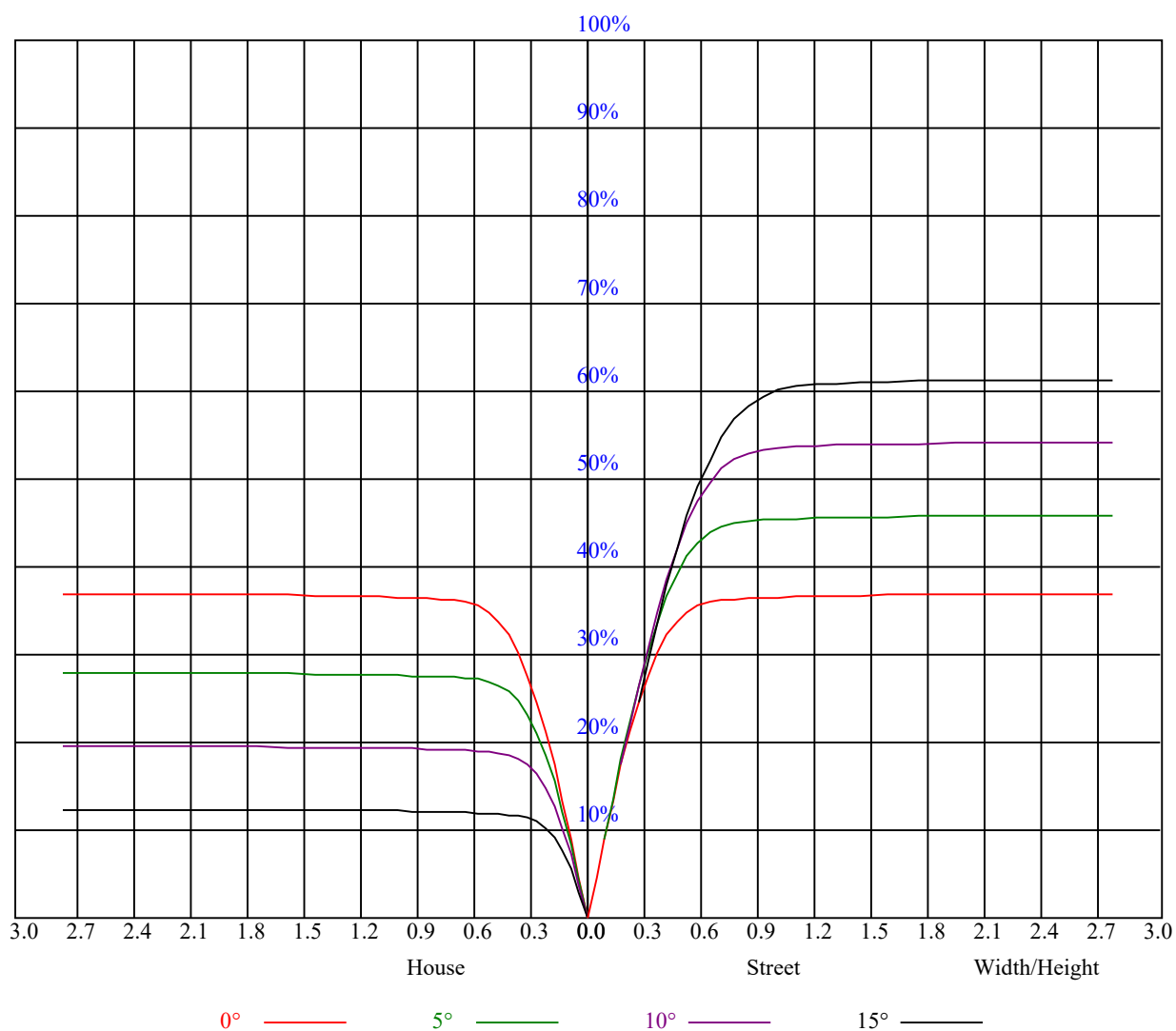
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOC	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	0.89	0.89	0.89	0.87	0.87	0.87	0.83	0.83	0.83	0.79	0.79	0.79	0.76	0.76	0.76	0.75
1	0.83	0.81	0.79	0.81	0.79	0.78	0.78	0.77	0.75	0.75	0.74	0.73	0.73	0.72	0.71	0.70
2	0.78	0.76	0.73	0.77	0.75	0.72	0.75	0.73	0.71	0.72	0.71	0.69	0.70	0.69	0.68	0.67
3	0.74	0.71	0.69	0.73	0.71	0.68	0.72	0.69	0.67	0.70	0.68	0.66	0.68	0.67	0.65	0.64
4	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.67	0.65	0.63	0.66	0.64	0.62	0.62
5	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.62	0.61	0.64	0.62	0.60	0.59
6	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.62	0.60	0.58	0.57
7	0.63	0.59	0.57	0.62	0.59	0.57	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.55
8	0.60	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.53
9	0.58	0.55	0.52	0.58	0.55	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.56	0.54	0.52	0.51
10	0.56	0.53	0.51	0.56	0.53	0.51	0.55	0.53	0.50	0.55	0.52	0.50	0.54	0.52	0.50	0.49



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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	1582.59	1530.61	1399.29	1172.84	892.24	539.21	188.12	30.35	15.17
45.0	1583.05	1571.45	1489.32	1299.99	1057.30	727.84	400.69	121.39	19.68
90.0	1583.51	1544.54	1391.87	1199.76	918.09	561.43	181.76	32.30	15.17
135.0	1576.55	1557.99	1452.66	1268.90	1028.53	631.78	290.72	55.78	20.05
180.0	1582.59	1557.06	1460.08	1273.08	994.19	651.73	285.61	53.36	19.03
225.0	1583.05	1502.77	1361.71	1043.38	784.26	458.09	134.99	25.52	13.36
270.0	1583.51	1553.35	1443.84	1242.45	986.77	674.94	267.05	49.93	19.86
315.0	1576.55	1520.87	1367.74	1150.11	870.48	559.81	159.26	32.11	15.87
360.0	1582.59	1530.61	1399.29	1172.84	892.24	539.21	188.12	30.35	15.17
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	11.04	8.31	6.59	4.64	3.43	2.46	1.86	1.39	1.44
45.0	12.06	9.37	7.24	5.43	3.99	2.78	2.00	1.35	0.84
90.0	10.35	8.17	6.26	4.69	3.48	2.37	1.86	1.30	0.79
135.0	11.83	9.10	7.10	5.20	3.81	2.83	2.13	1.58	2.23
180.0	11.79	9.19	6.77	5.15	3.71	2.60	1.95	1.48	1.86
225.0	9.74	7.75	5.66	4.18	2.97	2.04	1.53	1.11	0.51
270.0	11.97	9.05	7.05	5.10	3.67	2.60	1.95	1.30	0.70
315.0	10.81	8.45	6.50	5.01	3.34	2.51	1.72	1.35	1.07
360.0	11.04	8.31	6.59	4.64	3.43	2.46	1.86	1.39	1.44
C/γ(°)	90.0								
0.0	0.60								
45.0	0.42								
90.0	0.42								
135.0	0.97								
180.0	0.23								
225.0	0.28								
270.0	0.32								
315.0	0.56								
360.0	0.60								