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Nata

LumCAT: 1-0940-N	
Luminaire: 92.70.259.00	
Report No: 200923-B041	Voltage(V): 230.9000
Test No: 200923-C041	Current(A): 0.0910
LampCAT: BRIDGELUX V6HD	Power (W): 11.4400
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): 867.34
Efficiency(%): 78.82%
Lumens(lm)/Power(W): 75.82
Central intensity(cd): 5517.589
Maximum intensity(cd): 5517.589
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=16.6
 [C90/270]Total=16.6
Field angle(10%Imax): [C0/180]Total=43.7
 [C90/270]Total=43.7
Maximum s/h(1/2): C0_180=0.29 C90_270=0.29
Maximum s/h(1/4): C0_180=0.31 C90_270=0.31
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 78.93%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.305%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5517.590	1.320	1.32	.120%	.152%
1.0	5472.114	10.473	11.793	.952%	1.360%
2.0	5337.545	20.427	32.22	1.856%	3.715%
3.0	5103.498	29.290	61.51	2.662%	7.092%
4.0	4765.507	36.454	97.964	3.313%	11.295%
5.0	4356.346	41.636	139.6	3.783%	16.095%
6.0	3834.134	43.949	183.55	3.994%	21.162%
7.0	3371.203	45.054	228.604	4.094%	26.357%
8.0	2904.501	44.328	272.932	4.028%	31.468%
9.0	2404.621	41.251	314.182	3.748%	36.224%
10.0	2078.812	39.586	353.768	3.597%	40.788%
11.0	1806.540	37.801	391.568	3.435%	45.146%
12.0	1588.967	36.228	427.797	3.292%	49.323%
13.0	1395.523	34.425	462.222	3.128%	53.292%
14.0	1225.124	32.502	494.723	2.953%	57.039%
15.0	1085.664	30.814	525.537	2.800%	60.592%
16.0	985.607	29.792	555.329	2.707%	64.026%
17.0	912.951	29.271	584.6	2.660%	67.401%
18.0	824.297	27.933	612.533	2.538%	70.622%
19.0	741.427	26.470	639.003	2.405%	73.674%
20.0	675.157	25.323	664.326	2.301%	76.593%
21.0	601.358	23.633	687.958	2.148%	79.318%
22.0	543.435	22.324	710.283	2.029%	81.892%
23.0	480.141	20.573	730.856	1.869%	84.264%
24.0	425.275	18.969	749.824	1.724%	86.451%
25.0	373.901	17.328	767.153	1.575%	88.449%
26.0	322.045	15.481	782.634	1.407%	90.234%
27.0	275.056	13.694	796.328	1.244%	91.812%
28.0	231.924	11.940	808.268	1.085%	93.189%
29.0	203.055	10.795	819.063	.981%	94.434%
30.0	168.931	9.263	828.326	.842%	95.502%
31.0	116.182	6.562	834.887	.596%	96.258%
32.0	84.663	4.920	839.807	.447%	96.825%
33.0	58.845	3.515	843.322	.319%	97.231%
34.0	41.374	2.537	845.859	.231%	97.523%
35.0	30.644	1.927	847.787	.175%	97.745%
36.0	24.884	1.604	849.39	.146%	97.930%
37.0	21.415	1.413	850.804	.128%	98.093%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	18.892	1.275	852.079	.116%	98.240%
39.0	16.566	1.143	853.222	.104%	98.372%
40.0	14.495	1.022	854.244	.093%	98.490%
41.0	12.697	0.913	855.158	.083%	98.595%
42.0	11.067	0.812	855.97	.074%	98.689%
43.0	9.687	0.724	856.694	.066%	98.772%
44.0	8.318	0.634	857.328	.058%	98.845%
45.0	7.204	0.559	857.887	.051%	98.910%
46.0	6.334	0.500	858.386	.045%	98.967%
47.0	5.574	0.447	858.833	.041%	99.019%
48.0	4.965	0.405	859.238	.037%	99.066%
49.0	4.507	0.373	859.611	.034%	99.109%
50.0	4.118	0.346	859.957	.031%	99.148%
51.0	3.799	0.324	860.281	.029%	99.186%
52.0	3.521	0.304	860.585	.028%	99.221%
53.0	3.300	0.289	860.874	.026%	99.254%
54.0	3.103	0.275	861.149	.025%	99.286%
55.0	2.935	0.264	861.413	.024%	99.316%
56.0	2.784	0.253	861.666	.023%	99.345%
57.0	2.657	0.244	861.91	.022%	99.374%
58.0	2.523	0.235	862.145	.021%	99.401%
59.0	2.419	0.227	862.372	.021%	99.427%
60.0	2.332	0.221	862.594	.020%	99.452%
61.0	2.262	0.217	862.811	.020%	99.477%
62.0	2.227	0.216	863.026	.020%	99.502%
63.0	2.181	0.213	863.239	.019%	99.527%
64.0	2.164	0.213	863.453	.019%	99.552%
65.0	2.094	0.208	863.661	.019%	99.575%
66.0	2.036	0.204	863.865	.019%	99.599%
67.0	2.001	0.202	864.067	.018%	99.622%
68.0	1.955	0.199	864.266	.018%	99.645%
69.0	1.897	0.194	864.46	.018%	99.668%
70.0	1.856	0.191	864.651	.017%	99.690%
71.0	1.804	0.187	864.838	.017%	99.711%
72.0	1.711	0.178	865.017	.016%	99.732%
73.0	1.618	0.170	865.186	.015%	99.751%
74.0	1.520	0.160	865.346	.015%	99.770%
75.0	1.456	0.154	865.501	.014%	99.788%

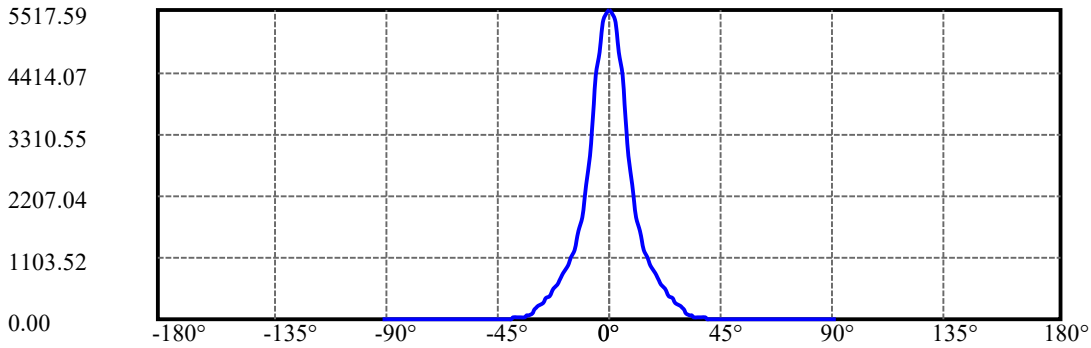
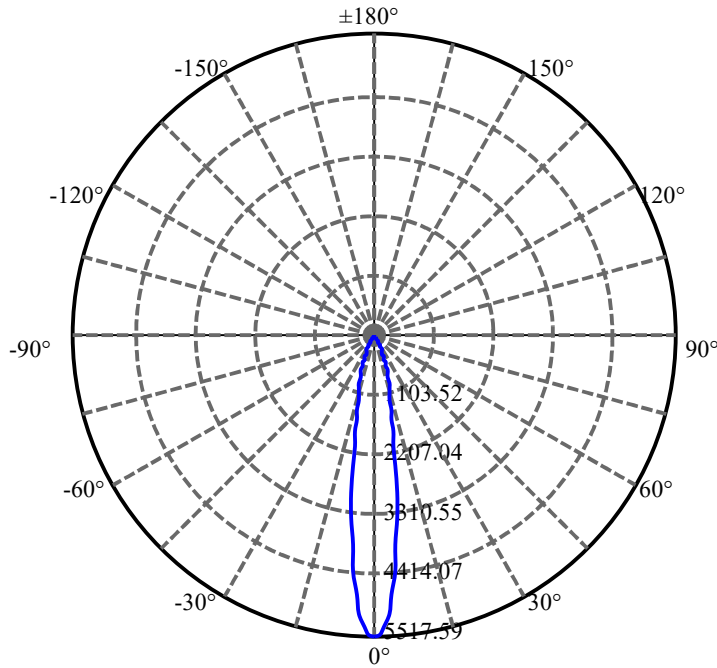
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.375	0.146	865.647	.013%	99.804%
77.0	1.305	0.139	865.786	.013%	99.821%
78.0	1.259	0.135	865.921	.012%	99.836%
79.0	1.230	0.132	866.054	.012%	99.851%
80.0	1.189	0.128	866.182	.012%	99.866%
81.0	1.143	0.124	866.306	.011%	99.880%
82.0	1.166	0.127	866.433	.012%	99.895%
83.0	1.201	0.131	866.563	.012%	99.910%
84.0	1.293	0.141	866.704	.013%	99.926%
85.0	1.247	0.136	866.841	.012%	99.942%
86.0	1.270	0.139	866.979	.013%	99.958%
87.0	1.218	0.133	867.113	.012%	99.973%
88.0	0.998	0.109	867.222	.010%	99.986%
89.0	0.760	0.083	867.306	.008%	99.996%
90.0	0.679	0.037	867.343	.003%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	828.33	75.27%	95.50%
0-40	854.24	77.63%	98.49%
0-60	862.59	78.38%	99.45%
0-90	867.31	78.81%	100.00%
0-120	867.31	78.81%	100.00%
0-180	867.34	78.82%	100.00%
60-90	4.93	0.45%	0.57%
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%
0-21.26	693.87	63.05%	80.00%

ZONAL LUMEN SUMMARY

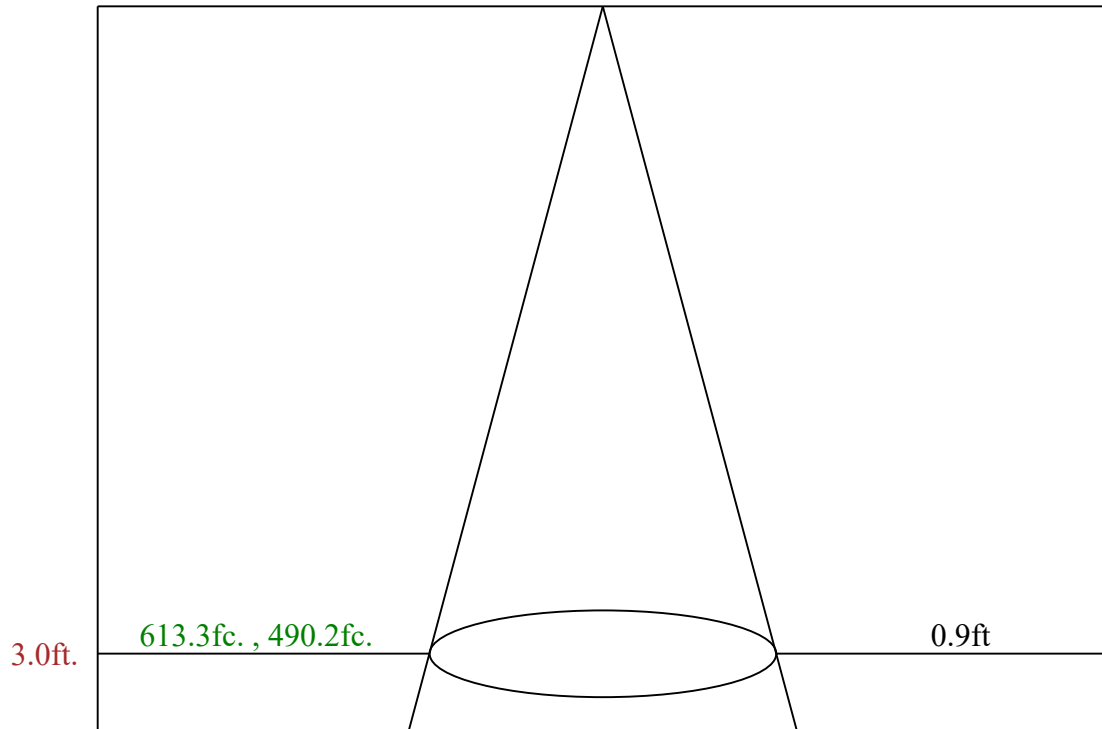
0-10	353.77
10-20	310.56
20-30	164.00
30-40	25.92
40-50	5.71
50-60	2.64
60-70	2.06
70-80	1.53
80-90	1.12
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



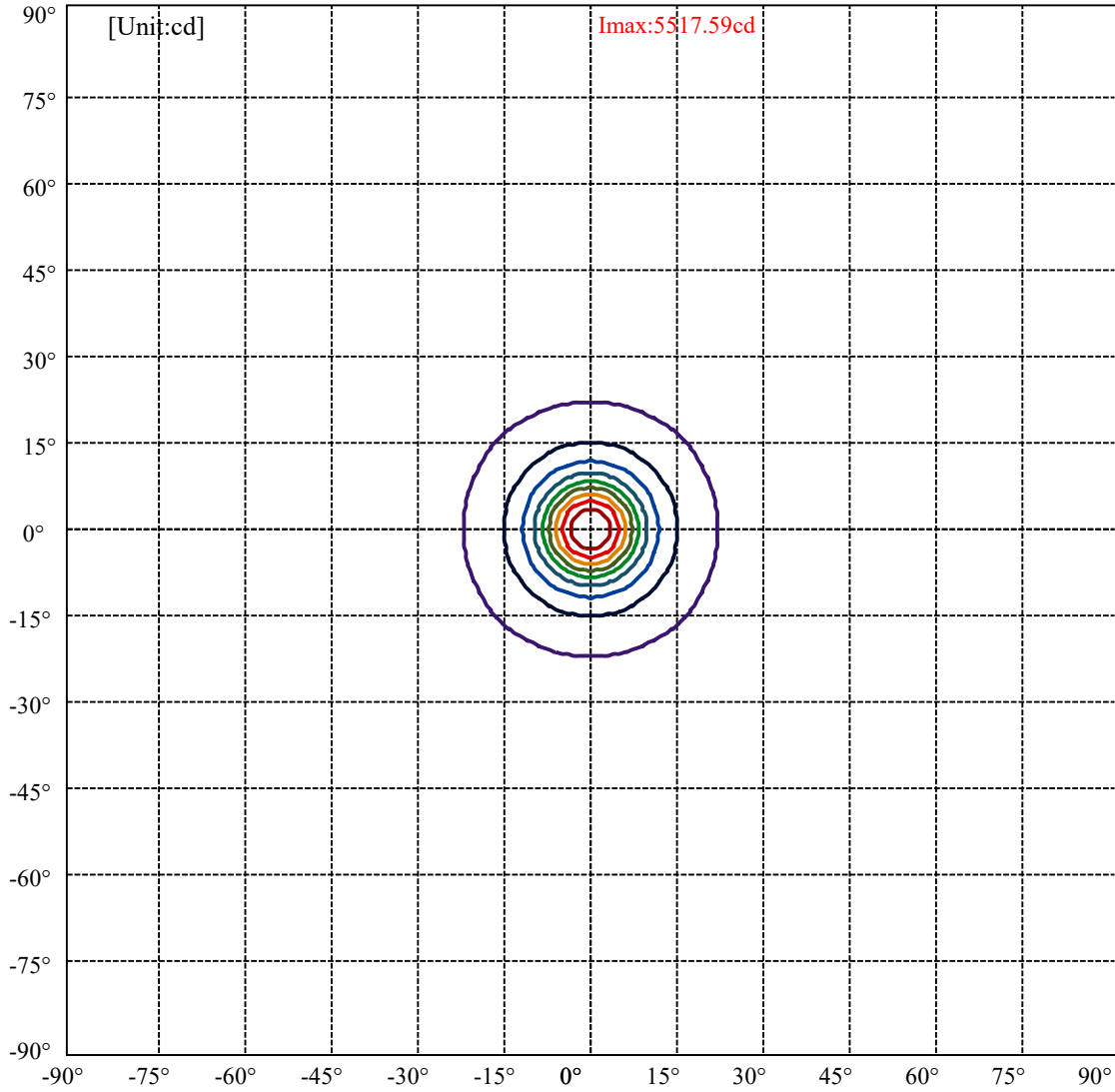
C90/C270: —————

Field angle(10%Imax):C90/270Left:21.9 Right:21.9

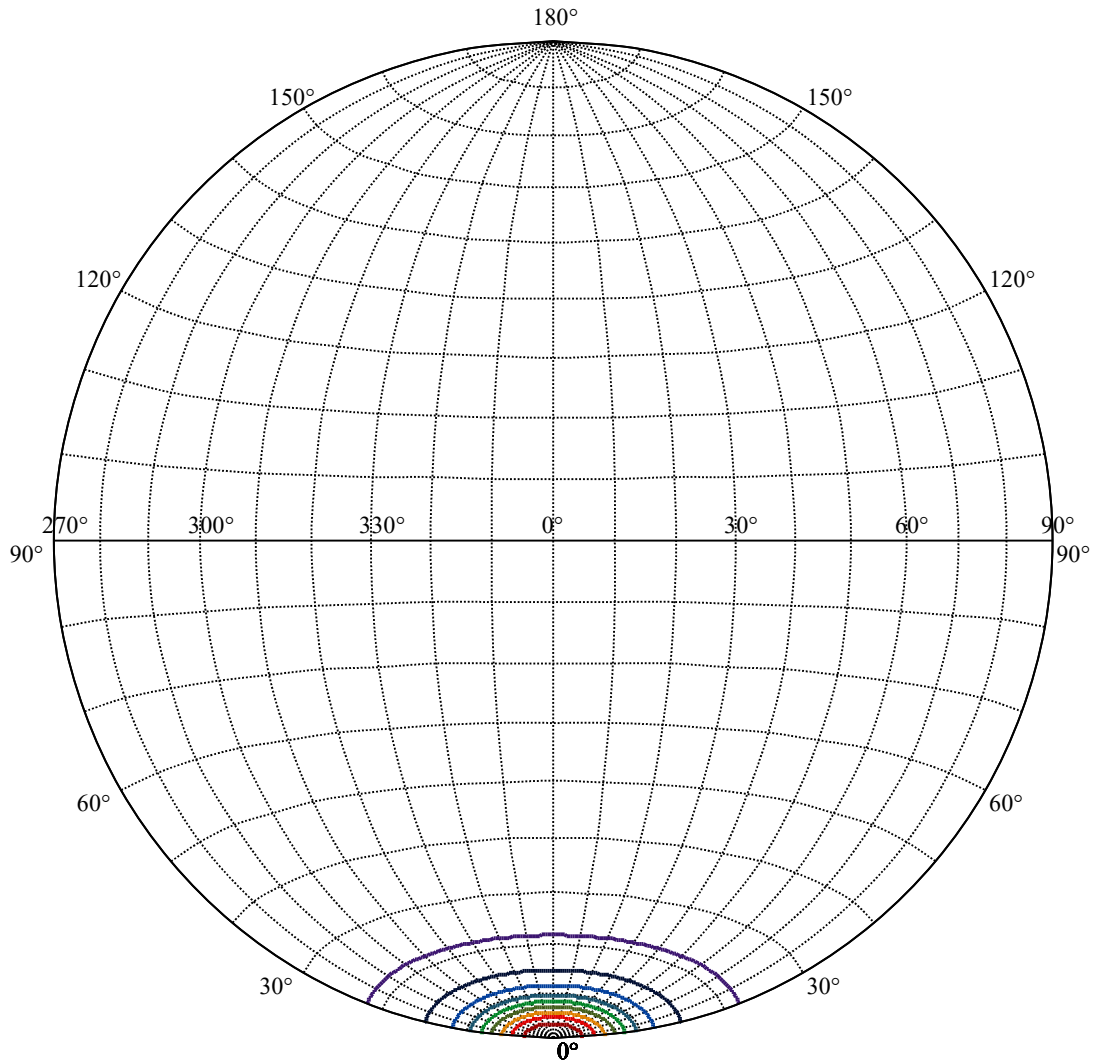
Beam Angle(50%Imax):C90/270Left:8.3 Right:8.3



Max , Ave Beam angle of C0 plane 16.67



(10%Imax) 551.759	—
(20%Imax) 1103.52	—
(30%Imax) 1655.28	—
(40%Imax) 2207.04	—
(50%Imax) 2758.79	—
(60%Imax) 3310.55	—
(70%Imax) 3862.31	—
(80%Imax) 4414.07	—
(90%Imax) 4965.83	—



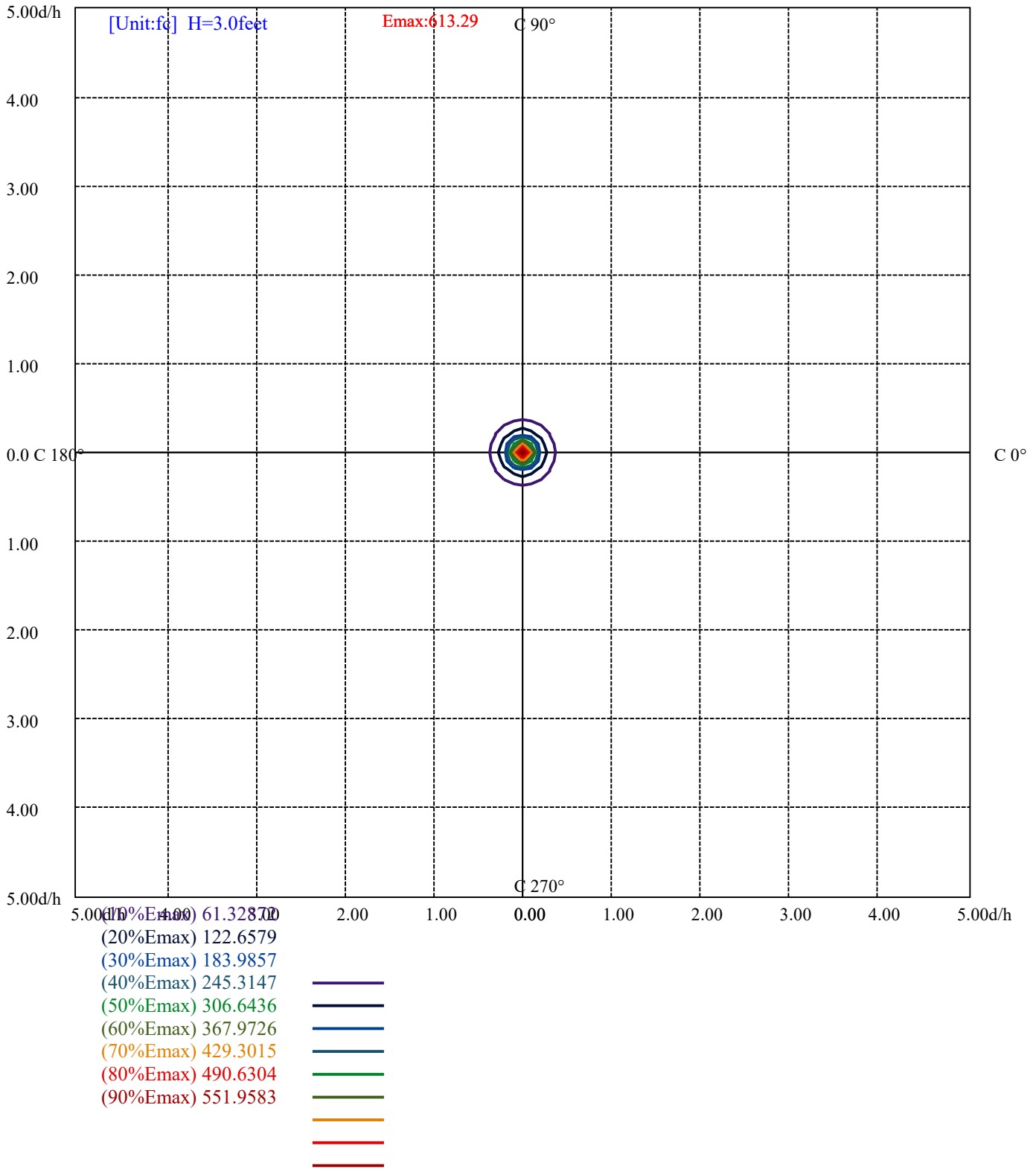
House

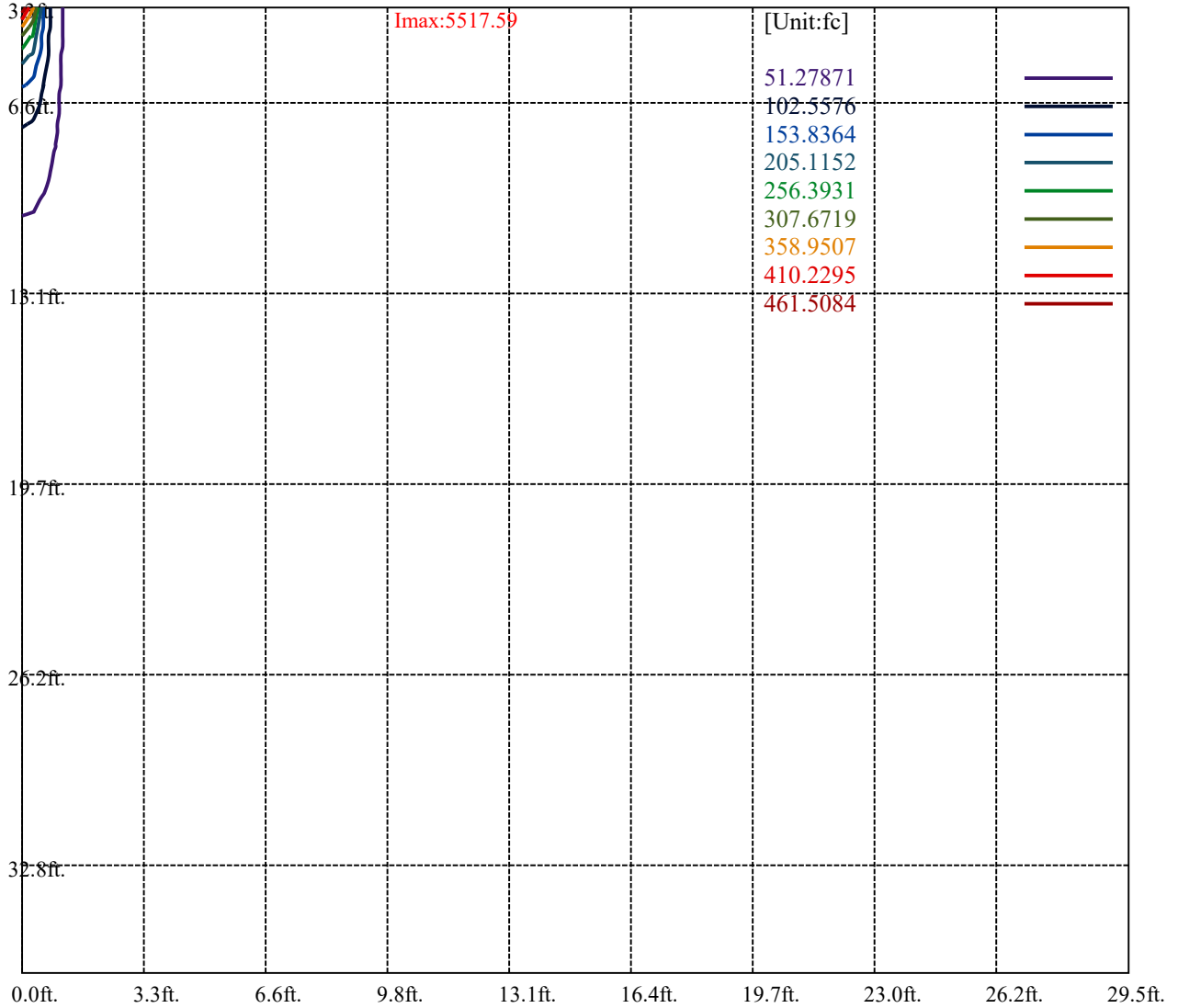
[Unit:cd]

Road

Imax:5517.59

(10%Imax) 551.759	—
(20%Imax) 1103.52	—
(30%Imax) 1655.28	—
(40%Imax) 2207.04	—
(50%Imax) 2758.79	—
(60%Imax) 3310.55	—
(70%Imax) 3862.31	—
(80%Imax) 4414.07	—
(90%Imax) 4965.83	—





Luminance Table

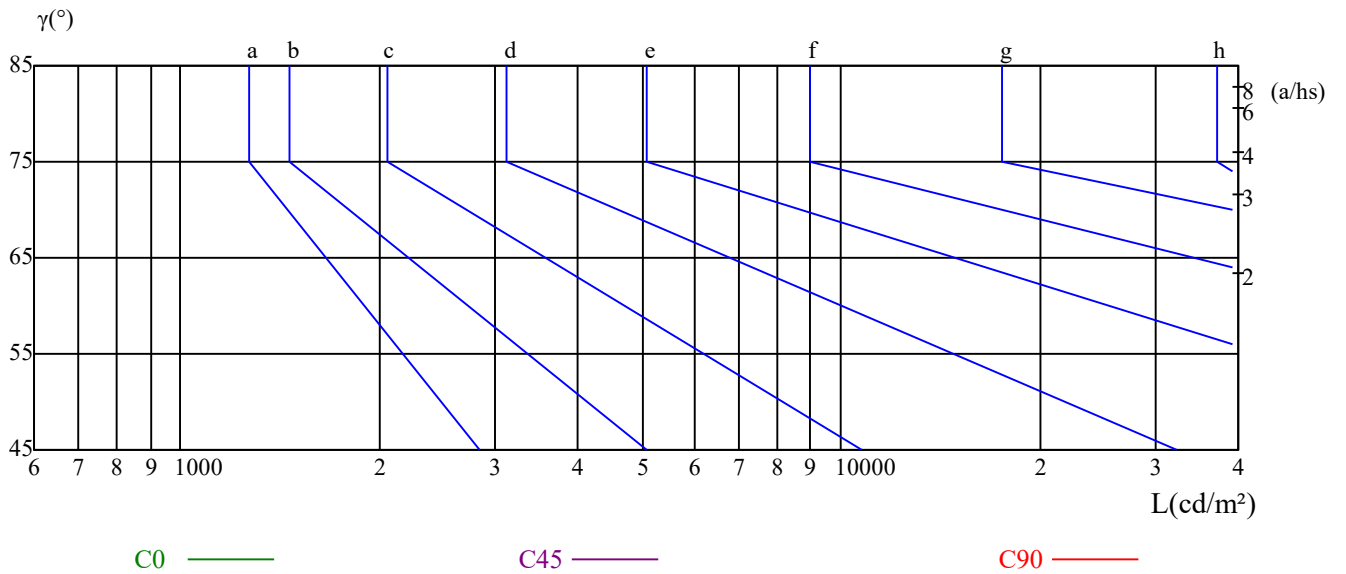
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

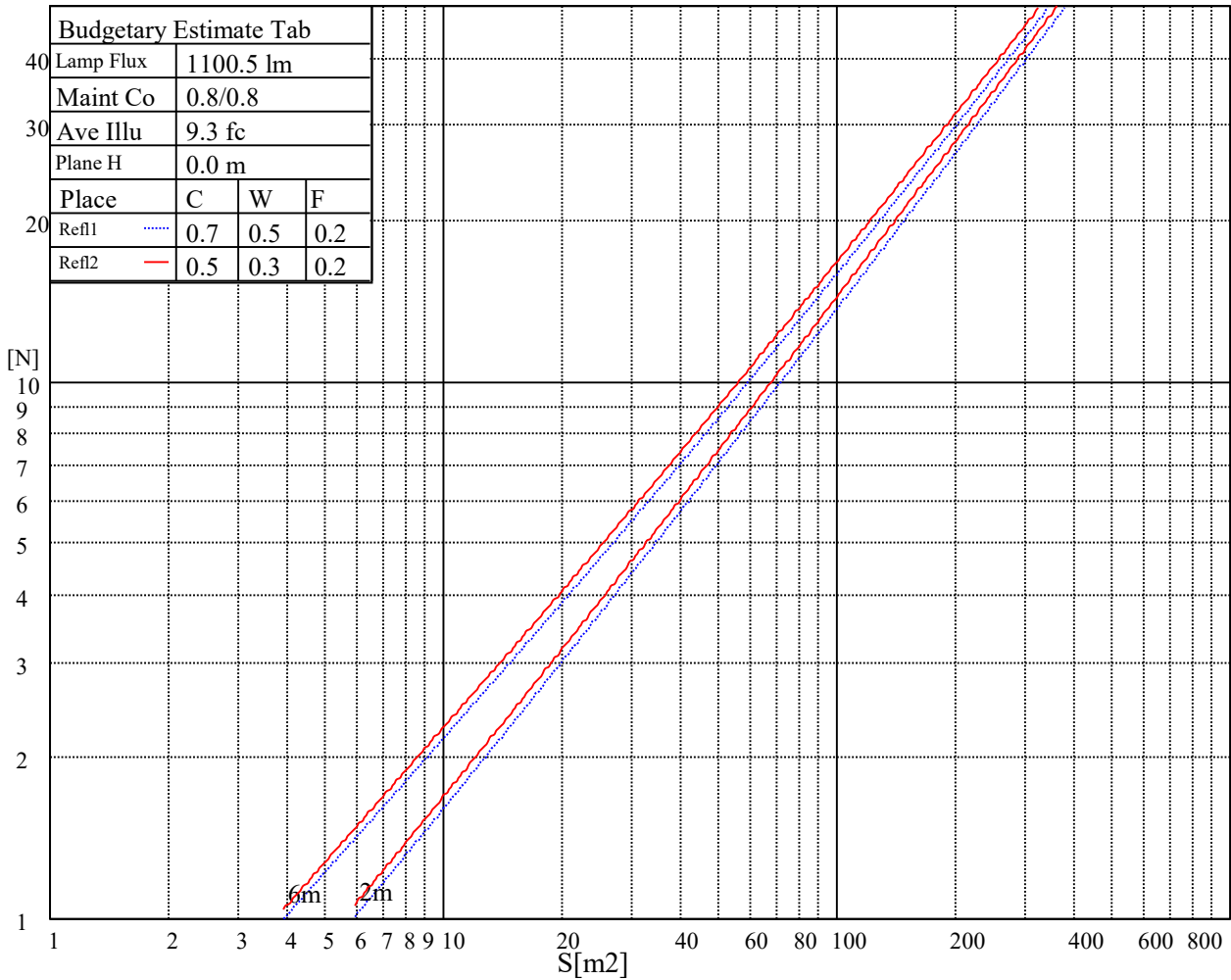
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

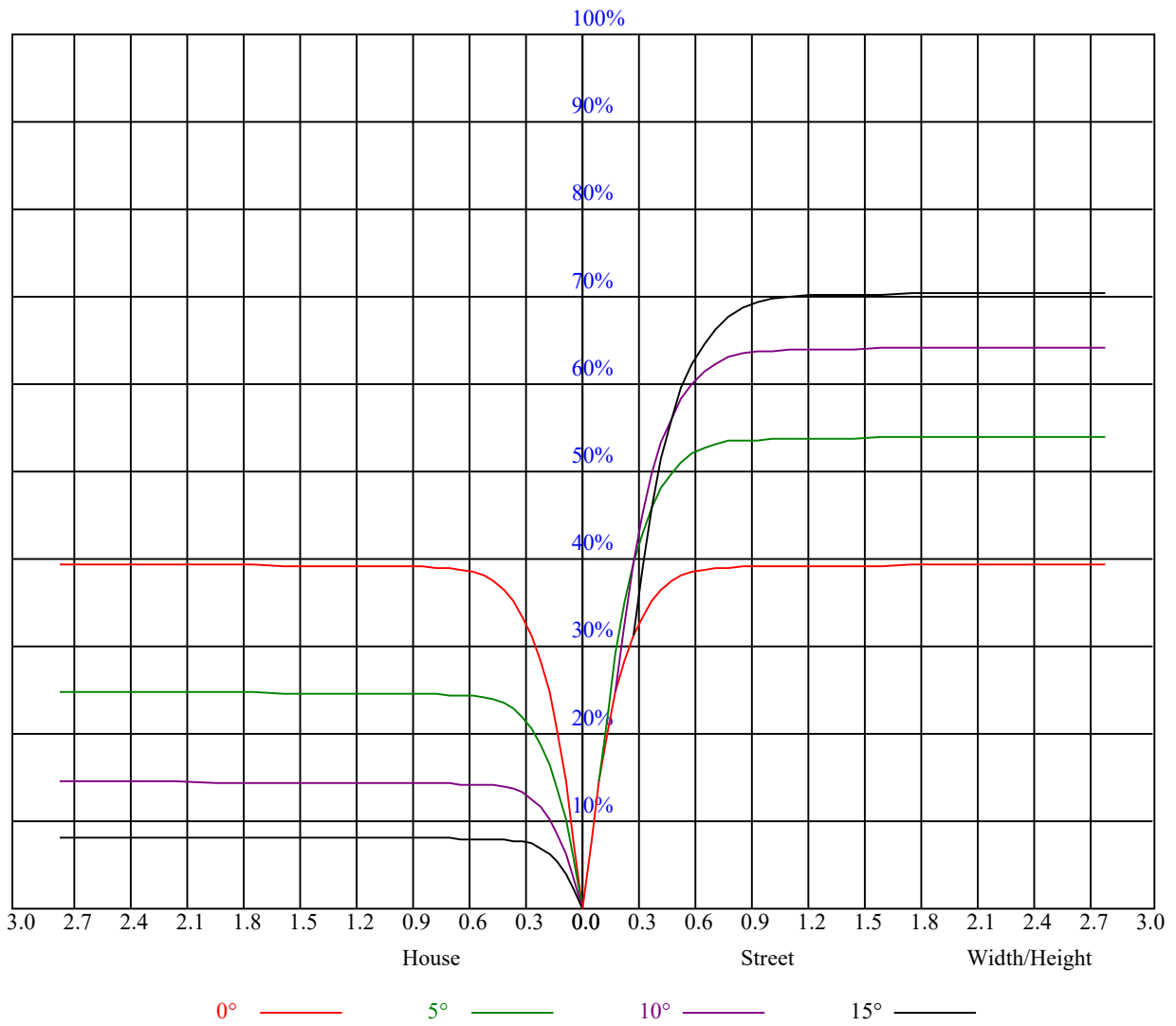
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	0.94	0.94	0.94	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.79
1	0.89	0.87	0.86	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.76
2	0.85	0.82	0.80	0.84	0.81	0.80	0.81	0.79	0.78	0.79	0.77	0.76	0.77	0.76	0.75	0.73
3	0.81	0.78	0.76	0.80	0.78	0.76	0.78	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.72	0.71
4	0.78	0.75	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.74	0.72	0.71	0.73	0.71	0.70	0.69
5	0.75	0.72	0.70	0.75	0.72	0.70	0.73	0.71	0.69	0.72	0.70	0.68	0.71	0.69	0.68	0.67
6	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.69	0.67	0.70	0.68	0.66	0.69	0.67	0.66	0.65
7	0.71	0.67	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.69	0.66	0.64	0.68	0.66	0.64	0.63
8	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.67	0.64	0.63	0.66	0.64	0.62	0.62
9	0.67	0.64	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.63	0.61	0.65	0.62	0.61	0.60
10	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.59



Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	5473.97	5301.81	5003.90	4612.26	4118.06	3576.54	3052.18	2582.58	2190.47
45.0	5541.26	5516.20	5374.20	5130.12	4761.22	4295.33	3762.15	3224.34	2725.04
90.0	5509.24	5369.10	5108.31	4742.65	4256.35	3942.20	3200.67	2894.41	2451.72
135.0	5545.90	5554.71	5486.96	5351.47	5117.13	4743.58	4248.92	3713.43	3184.89
180.0	5473.97	5541.26	5544.04	5436.38	5254.95	4970.96	4581.17	4081.87	3751.94
225.0	5541.26	5506.45	5388.59	5163.07	4836.39	4396.02	3871.20	3551.02	3020.63
270.0	5509.24	5552.86	5518.52	5412.25	5206.69	4874.90	4436.39	3924.10	3377.00
315.0	5545.90	5434.53	5275.83	4979.77	4573.28	4051.24	3520.39	2997.89	2534.32
360.0	5473.97	5301.81	5003.90	4612.26	4118.06	3576.54	3052.18	2582.58	2190.47
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1881.42	1639.66	1449.87	1292.10	1157.53	924.26	905.93	870.25	786.82
45.0	2313.90	1984.44	1720.87	1515.30	1379.34	1207.65	1104.63	992.34	894.89
90.0	1965.41	1805.79	1578.87	1397.44	1243.84	1113.45	889.32	889.32	801.57
135.0	2693.48	2263.32	1927.83	1672.14	1470.29	1307.88	1171.92	1051.73	947.79
180.0	3001.60	2538.03	2286.06	1948.71	1687.92	1485.14	1318.55	1178.41	1056.84
225.0	2375.16	2144.53	1838.73	1597.90	1413.68	1258.69	1125.51	918.51	918.51
270.0	2861.93	2415.53	2042.91	1863.33	1538.04	1363.10	1275.40	1090.25	1019.71
315.0	2144.07	1839.20	1607.18	1424.81	1273.54	1140.83	894.05	894.05	877.49
360.0	1881.42	1639.66	1449.87	1292.10	1157.53	924.26	905.93	870.25	786.82
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	711.97	639.58	570.62	501.81	444.27	392.25	339.12	285.66	238.23
45.0	808.11	732.01	660.55	590.48	519.49	466.12	418.33	364.96	310.67
90.0	726.12	657.58	590.62	523.29	486.86	411.64	361.44	330.72	280.97
135.0	854.52	773.78	729.23	629.46	588.16	525.05	463.34	408.12	358.00
180.0	950.57	857.30	774.24	700.46	630.85	561.25	497.68	439.67	389.09
225.0	829.69	750.06	677.63	609.46	557.49	483.99	435.96	385.98	324.22
270.0	919.95	829.46	752.89	680.51	612.29	546.86	483.75	427.14	377.96
315.0	793.45	691.64	645.47	575.40	508.07	453.96	402.60	348.95	297.21
360.0	711.97	639.58	570.62	501.81	444.27	392.25	339.12	285.66	238.23
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	194.66	157.21	134.29	86.08	68.63	46.64	29.61	26.40	23.20
45.0	264.27	238.28	238.28	155.50	102.09	82.74	54.34	35.82	29.09
90.0	235.26	191.92	151.69	115.73	84.55	58.24	40.14	30.02	24.64
135.0	307.42	260.09	241.99	232.71	131.79	97.03	68.31	46.31	32.06
180.0	337.58	287.47	258.70	241.07	193.78	127.56	92.99	63.62	43.43
225.0	284.27	237.03	195.31	154.94	118.93	86.36	59.49	39.86	28.17
270.0	327.84	277.72	241.99	241.99	140.97	118.75	85.94	59.30	39.91
315.0	249.14	205.66	162.18	123.43	88.72	60.00	39.95	29.65	24.64
360.0	194.66	157.21	134.29	86.08	68.63	46.64	29.61	26.40	23.20
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	20.46	18.24	16.33	14.43	12.81	11.37	9.79	8.45	7.42
45.0	25.57	22.74	20.00	17.45	15.27	13.41	11.65	10.02	8.54
90.0	21.62	19.03	16.57	14.15	12.34	10.58	9.19	7.89	6.68
135.0	25.75	21.81	19.30	17.08	14.99	13.09	11.46	10.12	8.91
180.0	31.14	25.24	22.41	19.72	17.40	15.31	13.41	11.88	10.35
225.0	23.34	21.16	18.84	16.43	14.15	12.30	10.67	9.84	8.17
270.0	29.19	23.76	20.79	18.24	16.01	14.20	12.53	10.81	9.19
315.0	22.00	19.35	16.89	15.03	12.99	11.32	9.84	8.49	7.29
360.0	20.46	18.24	16.33	14.43	12.81	11.37	9.79	8.45	7.42

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	6.59	5.89	5.24	4.73	4.32	4.08	3.81	3.48	3.29
45.0	7.29	6.26	5.43	4.87	4.41	3.99	3.71	3.43	3.25
90.0	5.80	5.38	4.73	4.27	3.90	3.53	3.20	3.02	2.83
135.0	7.70	6.59	5.80	5.10	4.59	4.18	3.85	3.57	3.29
180.0	8.96	7.70	7.10	5.99	5.57	5.01	4.64	4.22	3.90
225.0	7.05	6.45	5.38	5.01	4.55	4.22	3.90	3.62	3.39
270.0	7.93	6.87	6.08	5.43	4.78	4.32	3.94	3.71	3.48
315.0	6.31	5.52	4.83	4.32	3.94	3.62	3.34	3.11	2.97
360.0	6.59	5.89	5.24	4.73	4.32	4.08	3.81	3.48	3.29
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	3.11	2.92	2.83	2.69	2.51	2.41	2.37	2.27	2.23
45.0	3.06	2.88	2.69	2.55	2.46	2.32	2.18	2.13	2.13
90.0	2.60	2.46	2.37	2.32	2.13	2.09	2.09	2.04	2.04
135.0	3.16	3.02	2.83	2.69	2.60	2.51	2.37	2.32	2.23
180.0	3.62	3.48	3.25	3.02	2.83	2.74	2.64	2.46	2.37
225.0	3.25	3.06	2.88	2.78	2.64	2.51	2.37	2.37	2.37
270.0	3.25	3.06	2.97	2.78	2.69	2.60	2.46	2.37	2.32
315.0	2.78	2.60	2.46	2.41	2.32	2.18	2.18	2.13	2.13
360.0	3.11	2.92	2.83	2.69	2.51	2.41	2.37	2.27	2.23
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	2.18	2.18	2.13	2.04	1.95	1.95	1.90	1.81	1.72
45.0	2.09	2.04	2.00	1.95	1.90	1.86	1.76	1.76	1.72
90.0	2.00	2.00	1.90	1.81	1.81	1.76	1.76	1.67	1.58
135.0	2.23	2.27	2.13	2.09	2.09	2.04	1.95	1.90	1.90
180.0	2.32	2.32	2.23	2.13	2.09	2.04	2.04	2.04	2.00
225.0	2.23	2.13	2.13	2.09	2.04	2.00	1.95	1.81	1.81
270.0	2.27	2.27	2.18	2.13	2.13	2.04	1.95	1.95	1.90
315.0	2.13	2.09	2.04	2.04	2.00	1.95	1.86	1.90	1.81
360.0	2.18	2.18	2.13	2.04	1.95	1.95	1.90	1.81	1.72
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1.58	1.53	1.44	1.35	1.30	1.30	1.25	1.25	1.25
45.0	1.58	1.53	1.35	1.30	1.21	1.16	1.16	1.07	0.97
90.0	1.53	1.44	1.30	1.25	1.21	1.16	1.07	1.07	1.02
135.0	1.81	1.67	1.58	1.53	1.44	1.35	1.30	1.25	1.21
180.0	1.86	1.81	1.72	1.67	1.53	1.44	1.39	1.35	1.30
225.0	1.76	1.62	1.53	1.44	1.39	1.30	1.21	1.21	1.16
270.0	1.86	1.72	1.67	1.58	1.48	1.39	1.35	1.30	1.30
315.0	1.72	1.62	1.58	1.53	1.44	1.35	1.35	1.35	1.30
360.0	1.58	1.53	1.44	1.35	1.30	1.30	1.25	1.25	1.25
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.21	1.62	1.90	2.09	1.48	1.16	0.97	0.79	0.32
45.0	0.97	0.93	0.84	0.74	0.74	0.70	0.65	0.60	0.56
90.0	0.93	0.84	0.88	0.79	0.70	0.70	0.60	0.56	0.46
135.0	1.16	1.16	1.21	1.16	1.11	1.48	1.76	1.35	0.97
180.0	1.30	1.25	1.21	1.16	1.16	1.62	1.72	1.44	1.11
225.0	1.07	1.02	0.97	0.97	0.88	0.79	0.74	0.70	0.65
270.0	1.16	1.16	1.11	1.07	0.97	0.93	0.84	0.79	0.70
315.0	1.35	1.35	1.48	2.37	2.92	2.78	2.46	1.76	1.30
360.0	1.21	1.62	1.90	2.09	1.48	1.16	0.97	0.79	0.32

Intensity data(cd)

C/γ(°)	90.0
0.0	0.28
45.0	0.42
90.0	0.51
135.0	0.79
180.0	0.88
225.0	0.60
270.0	0.70
315.0	1.25
360.0	0.28