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NATA

LumCAT: 1546-E	
Luminaire: 92.70.051.00	
Report No: NATA0100	Voltage(V): 10.2300
Test No: GC2019010803	Current(A): 0.6000
LampCAT: BRIDGELUX V6	Power (W): 6.1380
Lamp flux(lm): 519.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 21	Width(mm): 21
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 446.43
Efficiency(%): 86.02%
Lumens(lm)/Power(W): 72.76
Central intensity(cd): 659.039
Maximum intensity(cd): 659.039
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=40.1
[C90/270]Total=40.1
Field angle(10%Imax): [C0/180]Total=87.7
[C90/270]Total=87.7
Maximum s/h(1/2): C0_180=0.63 C90_270=0.63
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(%): 86.04%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.881%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	659.039	0.158	0.158	.030%	.035%
1.0	658.287	1.260	1.418	.243%	.318%
2.0	655.748	2.510	3.927	.484%	.880%
3.0	650.700	3.735	7.662	.720%	1.716%
4.0	642.874	4.918	12.579	.948%	2.818%
5.0	632.173	6.042	18.621	1.164%	4.171%
6.0	617.906	7.083	25.704	1.365%	5.758%
7.0	602.930	8.058	33.762	1.553%	7.563%
8.0	585.682	8.939	42.701	1.722%	9.565%
9.0	566.297	9.715	52.415	1.872%	11.741%
10.0	546.209	10.401	62.816	2.004%	14.071%
11.0	525.593	10.998	73.814	2.119%	16.534%
12.0	505.139	11.517	85.331	2.219%	19.114%
13.0	482.484	11.902	97.233	2.293%	21.780%
14.0	460.146	12.207	109.441	2.352%	24.515%
15.0	438.173	12.436	121.877	2.396%	27.300%
16.0	416.278	12.583	134.46	2.424%	30.119%
17.0	393.061	12.602	147.062	2.428%	32.942%
18.0	371.721	12.597	159.658	2.427%	35.763%
19.0	350.993	12.531	172.19	2.414%	38.570%
20.0	330.462	12.394	184.584	2.388%	41.347%
21.0	310.170	12.189	196.773	2.349%	44.077%
22.0	291.860	11.990	208.763	2.310%	46.763%
23.0	274.655	11.768	220.531	2.268%	49.399%
24.0	256.613	11.446	231.977	2.205%	51.963%
25.0	241.573	11.196	243.173	2.157%	54.470%
26.0	227.995	10.960	254.133	2.112%	56.925%
27.0	214.629	10.685	264.818	2.059%	59.319%
28.0	202.781	10.440	275.258	2.012%	61.657%
29.0	193.015	10.262	285.519	1.977%	63.956%
30.0	184.120	10.095	295.615	1.945%	66.217%
31.0	176.245	9.954	305.569	1.918%	68.447%
32.0	170.030	9.881	315.45	1.904%	70.660%
33.0	164.728	9.838	325.288	1.896%	72.864%
34.0	159.954	9.809	335.097	1.890%	75.061%
35.0	154.294	9.705	344.802	1.870%	77.235%
36.0	147.790	9.526	354.328	1.835%	79.369%
37.0	140.618	9.280	363.608	1.788%	81.448%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	132.012	8.913	372.521	1.717%	83.444%
39.0	121.317	8.372	380.893	1.613%	85.320%
40.0	110.897	7.817	388.71	1.506%	87.071%
41.0	100.020	7.196	395.906	1.386%	88.682%
42.0	87.905	6.450	402.356	1.243%	90.127%
43.0	75.459	5.643	407.999	1.087%	91.391%
44.0	64.062	4.880	412.879	.940%	92.485%
45.0	53.009	4.110	416.99	.792%	93.405%
46.0	42.103	3.321	420.311	.640%	94.149%
47.0	33.110	2.655	422.966	.512%	94.744%
48.0	25.502	2.078	425.045	.400%	95.210%
49.0	19.280	1.596	426.64	.307%	95.567%
50.0	15.159	1.273	427.914	.245%	95.852%
51.0	13.240	1.128	429.042	.217%	96.105%
52.0	12.495	1.080	430.122	.208%	96.347%
53.0	12.059	1.056	431.178	.203%	96.583%
54.0	11.545	1.024	432.202	.197%	96.813%
55.0	11.201	1.006	433.208	.194%	97.038%
56.0	10.526	0.957	434.165	.184%	97.253%
57.0	9.942	0.914	435.08	.176%	97.457%
58.0	9.141	0.850	435.93	.164%	97.648%
59.0	7.327	0.689	436.618	.133%	97.802%
60.0	5.154	0.489	437.108	.094%	97.912%
61.0	4.774	0.458	437.566	.088%	98.014%
62.0	4.563	0.442	438.008	.085%	98.113%
63.0	4.359	0.426	438.434	.082%	98.209%
64.0	4.177	0.412	438.845	.079%	98.301%
65.0	4.015	0.399	439.244	.077%	98.390%
66.0	3.867	0.387	439.632	.075%	98.477%
67.0	3.720	0.375	440.007	.072%	98.561%
68.0	3.593	0.365	440.372	.070%	98.643%
69.0	3.466	0.355	440.727	.068%	98.722%
70.0	3.361	0.346	441.074	.067%	98.800%
71.0	3.255	0.338	441.411	.065%	98.876%
72.0	3.136	0.327	441.738	.063%	98.949%
73.0	3.059	0.321	442.059	.062%	99.021%
74.0	2.988	0.315	442.374	.061%	99.091%
75.0	2.897	0.307	442.681	.059%	99.160%

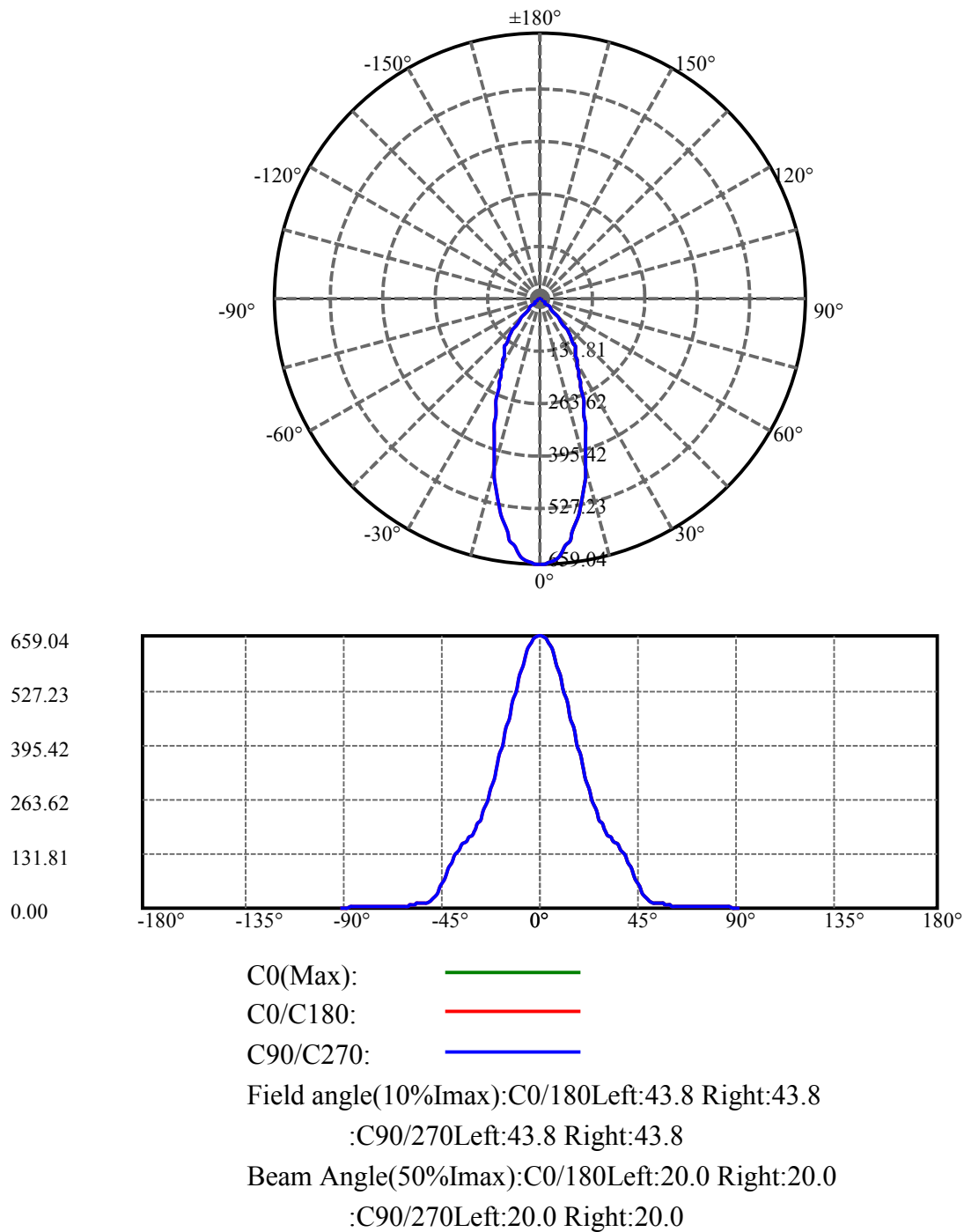
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.848	0.303	442.984	.058%	99.228%
77.0	2.827	0.302	443.286	.058%	99.296%
78.0	2.791	0.299	443.585	.058%	99.363%
79.0	2.742	0.295	443.881	.057%	99.429%
80.0	2.679	0.289	444.17	.056%	99.494%
81.0	2.580	0.279	444.449	.054%	99.556%
82.0	2.447	0.266	444.715	.051%	99.616%
83.0	2.377	0.259	444.974	.050%	99.674%
84.0	2.320	0.253	445.227	.049%	99.730%
85.0	2.292	0.250	445.477	.048%	99.786%
86.0	2.187	0.239	445.716	.046%	99.840%
87.0	1.969	0.216	445.932	.042%	99.888%
88.0	1.877	0.206	446.138	.040%	99.934%
89.0	1.814	0.199	446.337	.038%	99.979%
90.0	1.716	0.094	446.431	.018%	100.000%

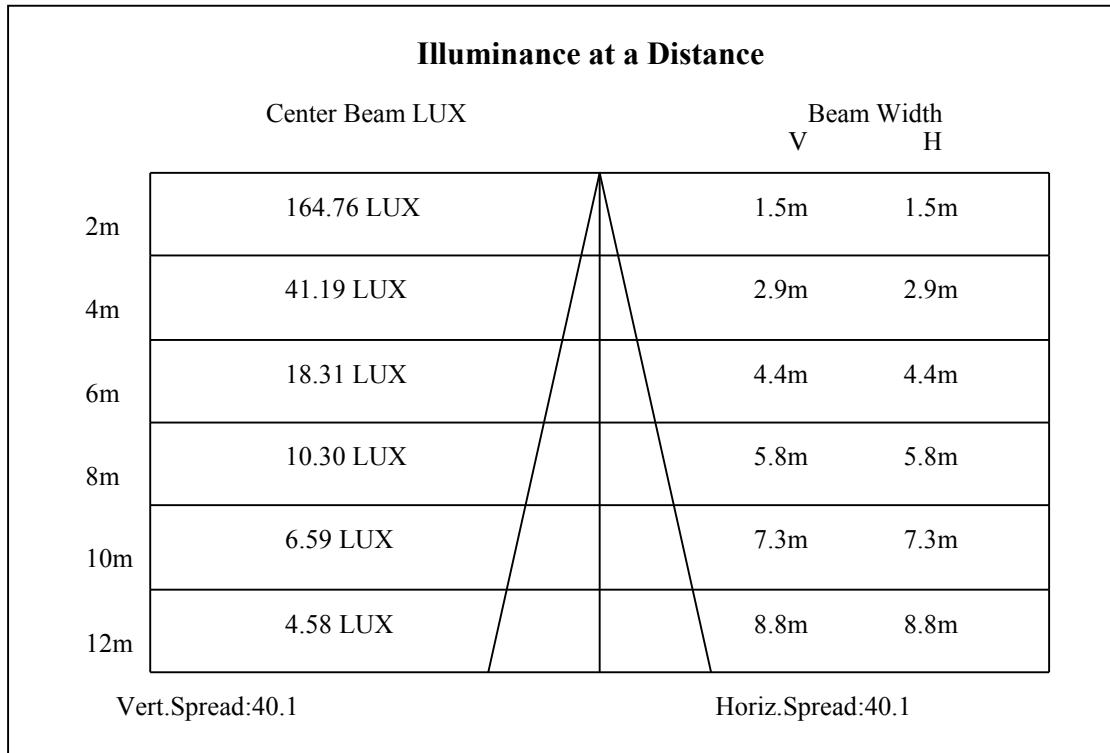
ZONAL LUMEN SUMMARY

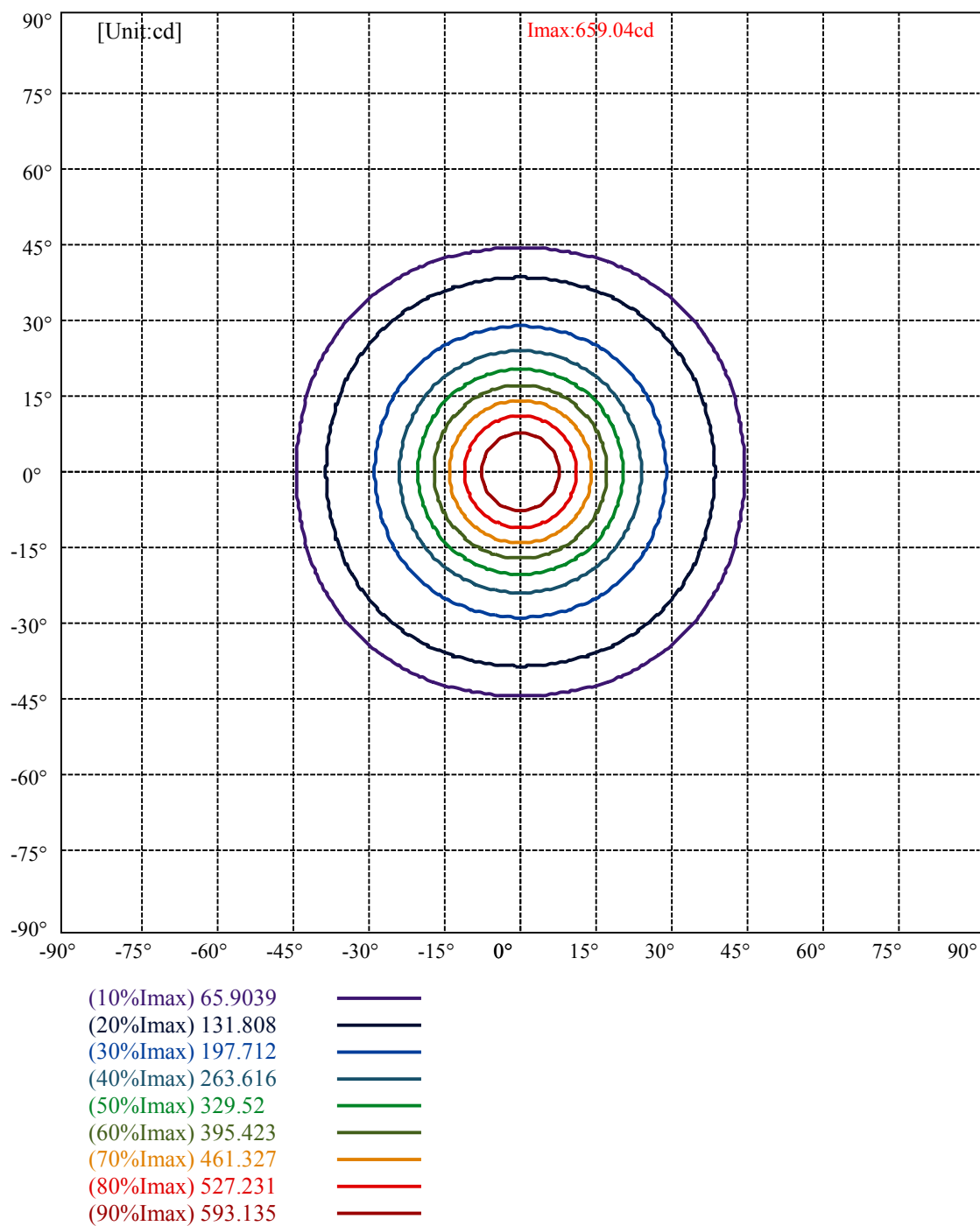
Zone	Lumens	%Lamp	%Fixt
0-30	295.61	56.96%	66.22%
0-40	388.71	74.90%	87.07%
0-60	437.11	84.22%	97.91%
0-90	446.34	86.00%	99.98%
0-120	446.34	86.00%	99.98%
0-180	446.43	86.02%	100.00%
60-90	9.72	1.87%	2.18%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-36.30	357.14	68.81%	80.00%

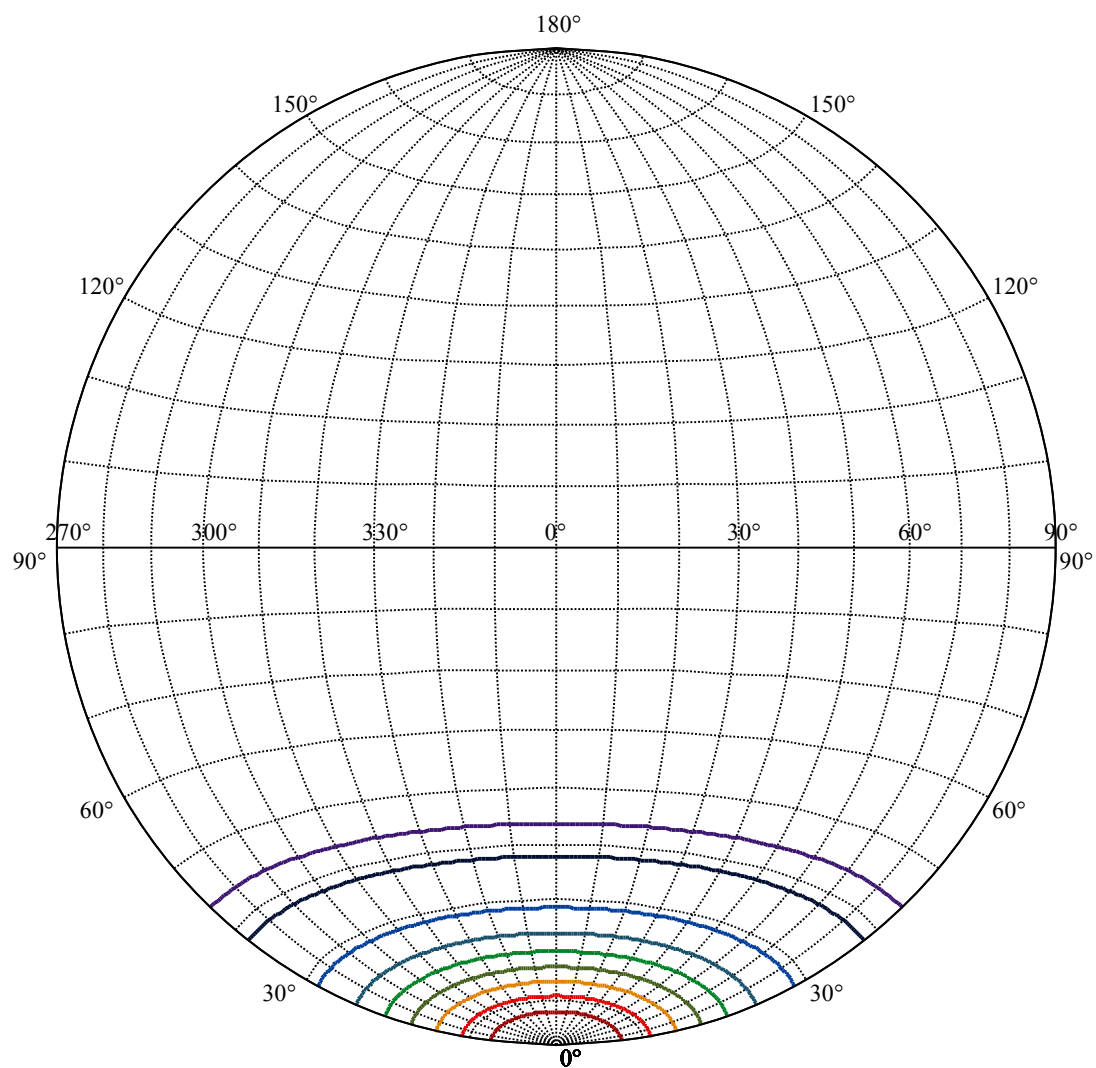
ZONAL LUMEN SUMMARY

0-10	62.82
10-20	121.77
20-30	111.03
30-40	93.10
40-50	39.20
50-60	9.19
60-70	3.97
70-80	3.10
80-90	2.17
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







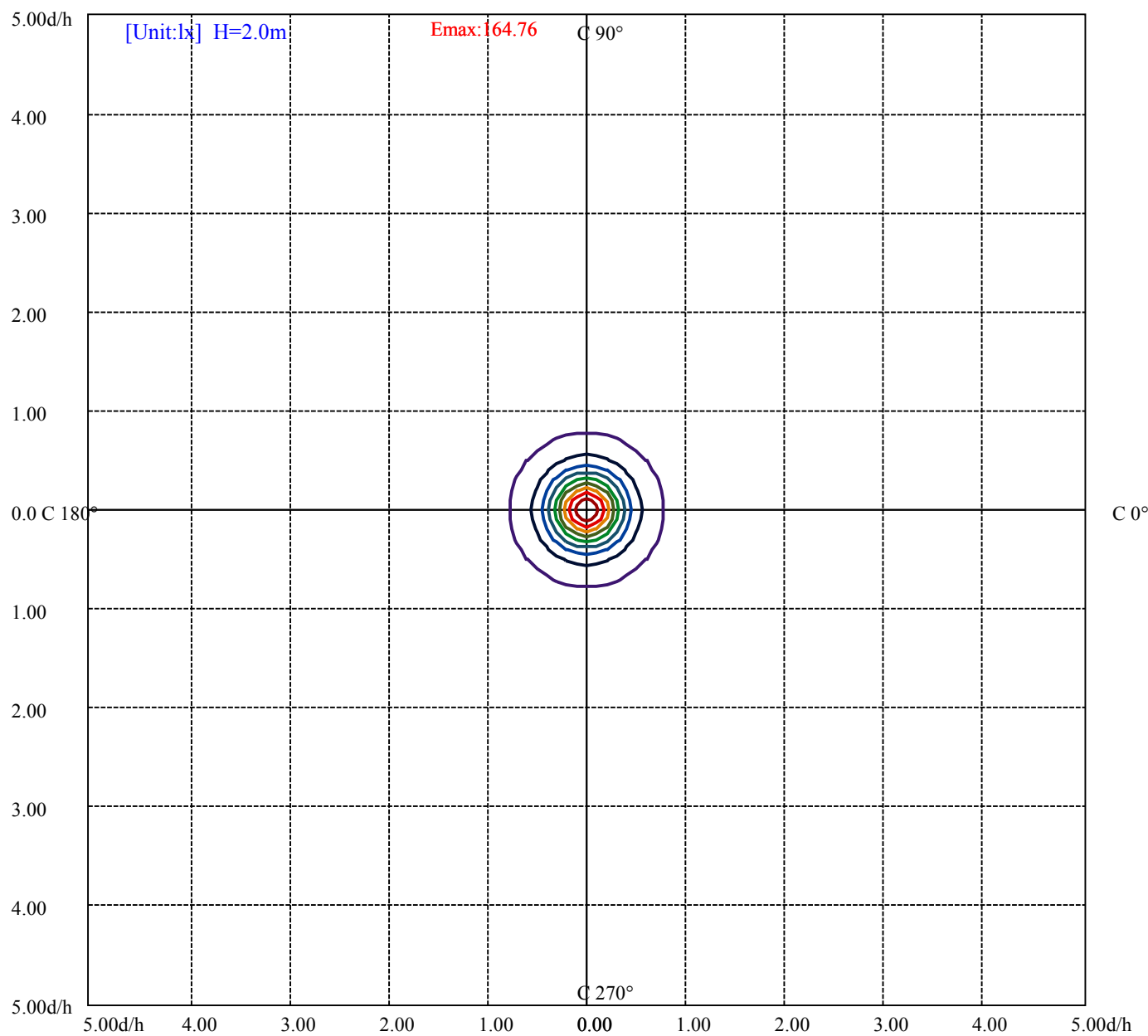


House

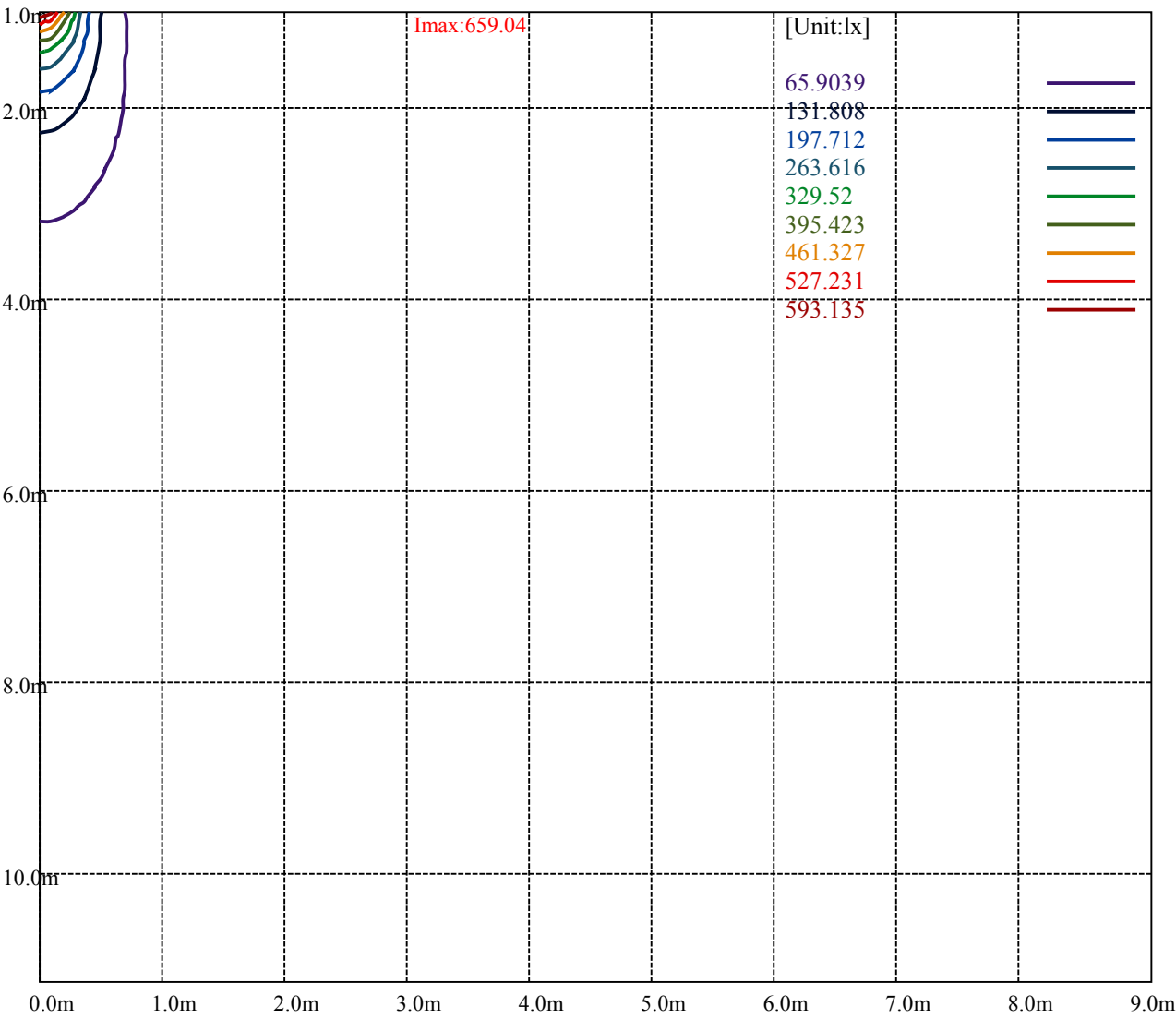
[Unit:cd]

Road

I_{max}:659.04(10%I_{max}) 65.9039(20%I_{max}) 131.808(30%I_{max}) 197.712(40%I_{max}) 263.616(50%I_{max}) 329.52(60%I_{max}) 395.423(70%I_{max}) 461.327(80%I_{max}) 527.231(90%I_{max}) 593.135



(10%E _{max}) 16.47598	—
(20%E _{max}) 32.952	—
(30%E _{max}) 49.428	—
(40%E _{max}) 65.904	—
(50%E _{max}) 82.37975	—
(60%E _{max}) 98.85575	—
(70%E _{max}) 115.3317	—
(80%E _{max}) 131.8078	—
(90%E _{max}) 148.2838	—



Luminance Table

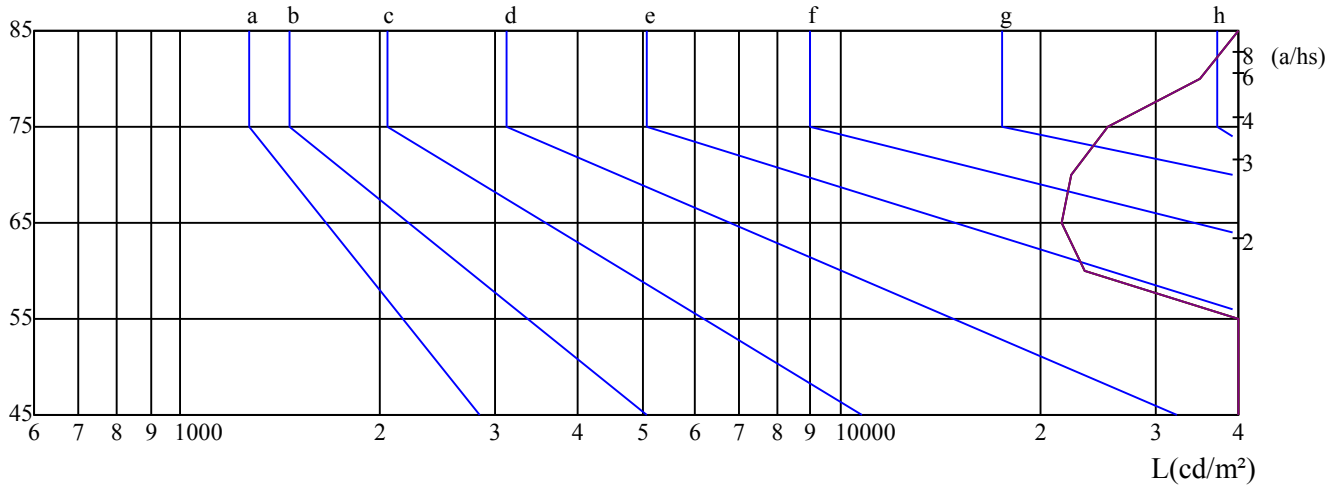
γ	45	50	55	60	65	70	75	80	85
C0	169990	53478	44281	23374	21542	22283	25380	34982	59637
C45	169990	53478	44281	23374	21542	22283	25380	34982	59637
C90	169990	53478	44281	23374	21542	22283	25380	34982	59637

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
21542	21542	21542	25380	25380	25380	59637	59637	59637

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

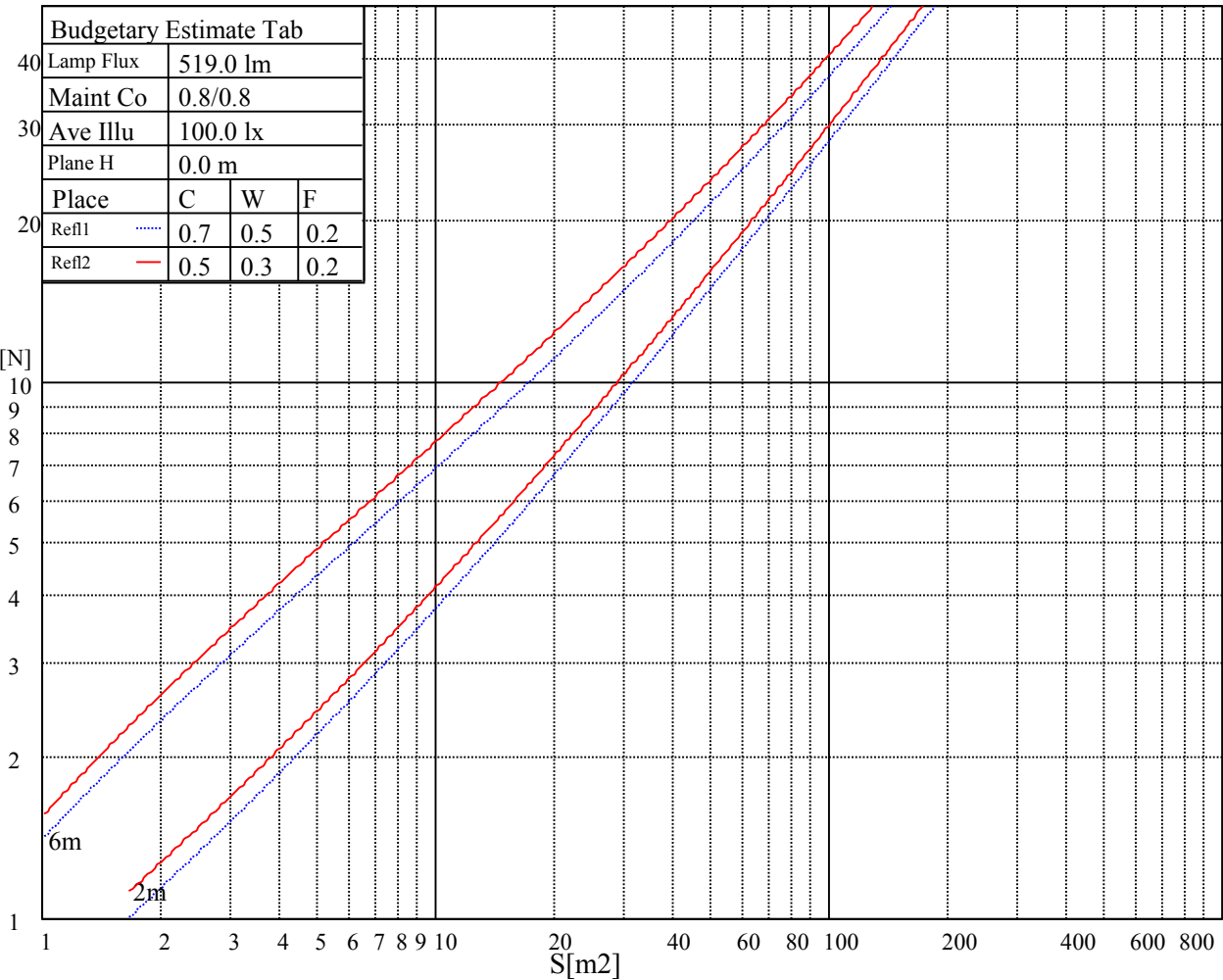
 $\gamma(^{\circ})$ 

C0 ———

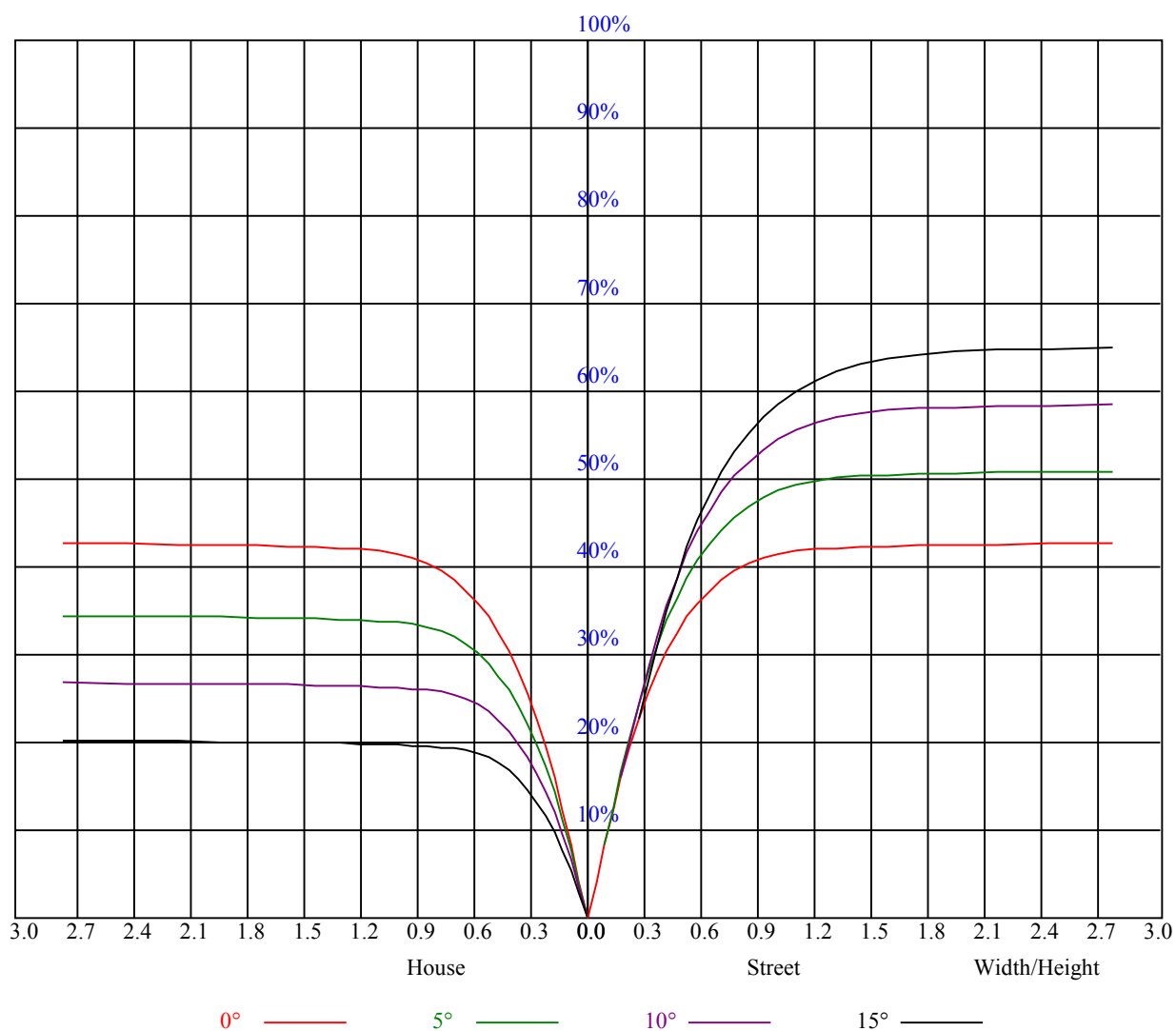
C45 ———

C90 ———

Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	19.89	20.96	20.26	21.27	21.59	20.47	21.54	20.83	21.85	22.17
	3H	20.96	21.90	21.34	22.23	22.60	21.31	22.26	21.70	22.59	22.96
	4H	21.65	22.52	22.06	22.88	23.26	21.86	22.73	22.27	23.09	23.48
	6H	22.64	23.44	23.06	23.81	24.21	22.60	23.39	23.01	23.77	24.16
	8H	23.23	23.98	23.66	24.37	24.78	23.05	23.80	23.48	24.19	24.60
	12H	24.22	24.94	24.65	25.32	25.75	23.89	24.61	24.33	25.00	25.43
4H	2H	20.05	20.92	20.45	21.27	21.66	20.56	21.43	20.96	21.78	22.17
	3H	21.43	22.14	21.85	22.55	22.95	21.71	22.41	22.12	22.82	23.23
	4H	22.34	22.98	22.78	23.40	23.85	22.47	23.10	22.91	23.52	23.97
	6H	23.47	24.01	23.94	24.46	24.93	23.37	23.91	23.84	24.36	24.84
	8H	24.24	24.74	24.71	25.19	25.67	23.99	24.50	24.47	24.95	25.43
	12H	25.31	25.75	25.80	26.24	26.71	24.94	25.38	25.43	25.87	26.35
8H	4H	22.69	23.19	23.16	23.64	24.12	22.79	23.30	23.27	23.75	24.22
	6H	24.13	24.54	24.64	25.04	25.53	24.01	24.42	24.52	24.92	25.40
	8H	25.10	25.46	25.63	25.98	26.48	24.84	25.20	25.37	25.72	26.22
	12H	26.44	26.76	26.96	27.26	27.84	26.09	26.41	26.61	26.90	27.48
12H	4H	22.77	23.21	23.26	23.69	24.17	22.88	23.32	23.37	23.81	24.29
	6H	24.67	24.69	24.85	25.16	25.70	24.56	24.58	24.75	25.05	25.60
	8H	25.41	25.72	25.93	26.22	26.80	25.17	25.49	25.69	25.98	26.56
Variation with the observer position at spacings:											
S = 1.0H		2.9/-5.9					2.9/-5.9				
S = 1.5H		4.7/-5.9					4.7/-5.9				
S = 2.0H		6.4/-5.0					6.4/-5.0				
Standard tables:		BK1					BK1				
Uncorrected UGR		8.1					8.1				



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	1.02	1.02	1.02	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.95	0.93	0.91	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80
2	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.81	0.79	0.77	0.79	0.77	0.75	0.74
3	0.82	0.77	0.74	0.81	0.77	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.69
4	0.76	0.72	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.72	0.68	0.66	0.70	0.67	0.65	0.64
5	0.72	0.66	0.63	0.71	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.66	0.63	0.61	0.59
6	0.67	0.62	0.58	0.66	0.62	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.59	0.57	0.56
7	0.63	0.58	0.54	0.63	0.58	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.52
8	0.60	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.50	0.56	0.53	0.50	0.49
9	0.56	0.51	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.54	0.50	0.47	0.54	0.50	0.47	0.46
10	0.53	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.52	0.48	0.45	0.51	0.47	0.45	0.44



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Intensity data(cd)									Appendix Page: 17 Total:19
C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	657.84	656.16	653.68	649.58	642.26	632.31	618.02	605.36	590.29
45.0	659.59	658.41	655.14	650.53	645.08	634.28	620.94	608.74	588.83
90.0	659.87	658.52	655.71	649.63	642.26	632.70	617.29	602.66	586.52
135.0	658.86	659.76	659.14	654.98	647.78	637.88	625.50	612.11	596.76
180.0	657.84	658.46	656.04	650.53	642.04	631.07	616.78	600.98	581.01
225.0	659.59	659.25	656.66	651.60	643.56	630.84	614.76	598.61	579.71
270.0	659.87	659.19	656.72	651.88	642.88	632.31	617.79	600.53	583.76
315.0	658.86	656.55	652.89	646.88	637.14	626.01	612.17	594.45	578.59
360.0	657.84	656.16	653.68	649.58	642.26	632.31	618.02	605.36	590.29
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	569.48	550.69	531.39	510.08	487.69	467.21	443.31	421.99	398.81
45.0	570.54	555.24	531.45	511.65	491.91	465.19	443.36	421.48	396.39
90.0	566.16	544.95	524.93	501.92	478.58	458.78	435.49	414.79	391.11
135.0	575.10	555.81	537.02	515.59	493.03	472.39	448.76	424.74	404.27
180.0	561.99	541.63	520.48	501.41	478.86	455.01	433.74	413.16	388.86
225.0	562.22	541.52	519.24	499.39	475.99	452.19	431.10	410.34	384.98
270.0	563.96	542.76	523.41	504.45	479.98	459.68	439.09	416.03	393.13
315.0	560.93	537.08	516.83	496.63	473.85	450.73	430.54	407.70	386.94
360.0	569.48	550.69	531.39	510.08	487.69	467.21	443.31	421.99	398.81
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	376.71	357.69	336.66	316.46	298.91	284.85	264.21	249.92	238.28
45.0	375.75	355.39	331.65	313.14	295.82	276.24	258.81	244.52	229.28
90.0	367.26	346.61	327.09	303.19	285.08	267.69	247.67	232.26	218.08
135.0	382.16	358.99	337.56	318.49	298.01	278.55	260.21	245.03	230.01
180.0	369.34	349.71	328.95	308.08	290.08	271.91	255.66	242.38	228.88
225.0	365.12	345.38	326.59	304.03	286.99	270.28	250.76	236.36	223.20
270.0	372.88	350.55	329.57	312.02	292.95	276.47	259.09	242.89	229.50
315.0	364.56	343.63	325.63	305.94	287.04	271.24	256.50	239.23	226.74
360.0	376.71	357.69	336.66	316.46	298.91	284.85	264.21	249.92	238.28
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	222.86	210.49	201.88	191.25	183.88	178.88	172.52	168.41	164.25
45.0	215.94	202.73	191.25	182.64	172.97	165.21	159.36	154.24	146.53
90.0	203.18	192.66	182.81	172.01	165.88	159.58	153.45	148.22	140.51
135.0	214.48	203.91	194.79	186.92	177.53	172.01	167.63	162.34	157.39
180.0	218.19	207.62	198.06	190.58	184.11	177.30	172.58	168.53	162.79
225.0	209.87	197.94	188.66	179.78	172.69	166.56	161.27	156.88	151.93
270.0	217.29	203.85	194.06	185.23	175.84	169.88	164.64	159.13	153.56
315.0	215.21	203.06	192.60	184.56	177.08	170.83	166.39	161.89	157.39
360.0	222.86	210.49	201.88	191.25	183.88	178.88	172.52	168.41	164.25
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	157.33	150.24	142.09	130.61	120.15	108.79	93.88	81.84	70.48
45.0	139.95	132.08	122.40	112.05	102.66	91.97	80.78	69.81	57.15
90.0	132.02	125.55	117.39	104.63	95.57	84.38	72.00	60.92	52.03
135.0	151.31	143.27	133.71	124.43	113.12	102.49	90.23	77.34	65.59
180.0	156.43	149.06	139.28	127.63	116.55	103.73	91.97	78.02	64.35
225.0	146.03	140.01	132.47	121.84	112.56	102.21	89.83	77.46	67.16
270.0	148.33	141.19	133.09	122.68	111.94	102.54	91.74	80.10	68.91
315.0	150.92	143.55	135.68	126.68	114.64	104.06	92.81	78.19	66.83
360.0	157.33	150.24	142.09	130.61	120.15	108.79	93.88	81.84	70.48

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Intensity data(cd)										Appendix Page: 18 Total:19	
C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	58.84	47.81	38.19	29.19	21.99	18.84	17.38	16.88	16.54		
45.0	47.03	37.91	30.43	24.58	20.36	17.10	16.14	15.81	15.02		
90.0	42.13	32.57	25.31	18.79	14.91	12.21	11.36	10.58	10.24		
135.0	53.10	41.74	32.96	26.16	17.89	14.01	11.76	10.58	10.24		
180.0	53.16	41.85	31.95	24.41	18.28	13.39	11.03	10.35	9.90		
225.0	56.31	45.51	35.94	26.27	19.69	14.29	11.25	10.24	9.73		
270.0	57.60	45.06	36.34	28.63	21.38	16.03	13.50	12.09	11.36		
315.0	55.91	44.38	33.75	25.99	19.74	15.41	13.50	13.44	13.44		
360.0	58.84	47.81	38.19	29.19	21.99	18.84	17.38	16.88	16.54		
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	16.14	15.69	15.08	14.18	12.54	9.73	5.18	4.84	4.67		
45.0	14.68	14.57	13.39	12.66	11.93	8.49	5.34	4.78	4.56		
90.0	9.62	9.00	8.27	8.04	7.54	6.41	5.18	4.84	4.67		
135.0	9.68	9.17	8.49	7.99	7.20	6.64	5.51	4.89	4.67		
180.0	9.39	8.94	8.38	7.82	7.31	6.58	5.01	4.73	4.50		
225.0	8.94	8.49	7.88	7.26	6.75	5.96	4.89	4.67	4.44		
270.0	10.86	10.46	9.96	9.34	9.06	7.31	5.29	4.89	4.61		
315.0	13.05	13.28	12.77	12.26	10.80	7.48	4.84	4.56	4.39		
360.0	16.14	15.69	15.08	14.18	12.54	9.73	5.18	4.84	4.67		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	4.39	4.22	4.05	3.94	3.71	3.54	3.43	3.32	3.26		
45.0	4.39	4.22	4.05	3.88	3.83	3.60	3.49	3.38	3.26		
90.0	4.50	4.28	4.16	3.99	3.83	3.77	3.66	3.54	3.38		
135.0	4.50	4.28	4.11	3.94	3.83	3.71	3.54	3.49	3.38		
180.0	4.28	4.16	3.94	3.77	3.66	3.49	3.38	3.26	3.15		
225.0	4.22	4.11	3.99	3.83	3.66	3.60	3.43	3.38	3.26		
270.0	4.39	4.16	3.99	3.88	3.71	3.60	3.49	3.38	3.26		
315.0	4.22	3.99	3.83	3.71	3.54	3.43	3.32	3.15	3.09		
360.0	4.39	4.22	4.05	3.94	3.71	3.54	3.43	3.32	3.26		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	3.09	2.98	2.93	2.81	2.76	2.70	2.64	2.53	2.48		
45.0	3.15	3.09	3.04	2.98	2.98	3.09	3.21	3.15	2.98		
90.0	3.32	3.26	3.21	3.04	3.04	3.04	3.15	3.26	3.15		
135.0	3.21	3.15	3.04	2.98	2.93	2.87	2.81	2.76	2.76		
180.0	3.04	2.93	2.87	2.76	2.70	2.64	2.53	2.53	2.42		
225.0	3.15	3.04	2.98	2.87	2.81	2.81	2.70	2.59	2.53		
270.0	3.15	3.15	3.04	2.98	2.87	2.81	2.76	2.64	2.64		
315.0	2.98	2.87	2.81	2.76	2.70	2.64	2.53	2.48	2.48		
360.0	3.09	2.98	2.93	2.81	2.76	2.70	2.64	2.53	2.48		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	2.42	2.36	2.25	2.19	2.14	2.14	1.91	1.91	1.86		
45.0	2.76	2.53	2.48	2.48	2.53	2.36	1.91	1.91	1.80		
90.0	2.81	2.59	2.59	2.48	2.42	2.31	1.86	1.80	1.69		
135.0	2.76	2.53	2.42	2.36	2.36	2.36	2.25	1.86	1.86		
180.0	2.36	2.25	2.19	2.14	2.08	2.08	1.97	1.91	1.91		
225.0	2.53	2.48	2.42	2.36	2.42	2.14	1.97	1.97	1.86		
270.0	2.59	2.48	2.36	2.31	2.25	2.14	1.97	1.80	1.74		
315.0	2.42	2.36	2.31	2.25	2.14	1.97	1.91	1.86	1.80		
360.0	2.42	2.36	2.25	2.19	2.14	2.14	1.91	1.91	1.86		

Intensity data(cd)

Appendix Page: 19 Total:19

C/ $\gamma(^{\circ})$	90.0
0.0	1.63
45.0	1.69
90.0	1.69
135.0	1.80
180.0	1.86
225.0	1.80
270.0	1.63
315.0	1.63
360.0	1.63