



NATA LIGHTING CO.,LTD.
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NT

Client: NT

LumCAT: 69-0022

Luminaire:

Report No: 20250705-B008

Ballast type: DC

Test No: 20250705-C008

Voltage(V): 45.040

LampCAT: LUMILEDS 2835-14

Current(A): 0.202

Lamp flux(lm): 1098.9

Power (W): 9.100

Number of Lamps: 1

PF: 0.000

Length(mm): 280

Width(mm): 21

Phm Type: C

Height(mm): 13

Photometric Results

Lumens(lm): 847.17, Efficiency(%): 77.09% , Luminous Efficacy(lm/W): 93.10

Central intensity(cd): 840.760, Maximum intensity(cd): 856.554

Angle of maximum intensity: C=0.0 γ =13.0

Beam Angle(50%Imax): [C0/180]Total=62.0

[C90/270]Total=61.8

Field angle(10%Imax): [C0/180]Total=76.0

[C90/270]Total=76.4

Maximum s/h(1/2): C0_180=1.07 C90_270=1.06

Maximum s/h(1/4): C0_180=0.89 C90_270=0.89

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 76.83%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.637%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	833.466	0.000	0	0.00%	0.00%
1.0	832.991	0.797	0.797	0.07%	0.09%
2.0	832.230	2.390	3.187	0.22%	0.38%
3.0	832.003	3.980	7.168	0.36%	0.85%
4.0	832.610	5.572	12.74	0.51%	1.50%
5.0	833.904	7.169	19.909	0.65%	2.35%
6.0	835.445	8.773	28.682	0.80%	3.39%
7.0	837.451	10.384	39.066	0.94%	4.61%
8.0	839.631	12.003	51.068	1.09%	6.03%
9.0	840.882	13.620	64.688	1.24%	7.64%
10.0	841.272	15.223	79.911	1.39%	9.43%
11.0	842.397	16.823	96.734	1.53%	11.42%
12.0	843.421	18.428	115.162	1.68%	13.59%
13.0	843.616	20.021	135.183	1.82%	15.96%
14.0	842.159	21.578	156.761	1.96%	18.50%
15.0	839.531	23.087	179.848	2.10%	21.23%
16.0	835.345	24.542	204.39	2.23%	24.13%
17.0	831.571	25.958	230.348	2.36%	27.19%
18.0	827.126	27.348	257.696	2.49%	30.42%
19.0	819.741	28.652	286.348	2.61%	33.80%
20.0	810.071	29.830	316.178	2.71%	37.32%
21.0	799.039	30.898	347.077	2.81%	40.97%
22.0	785.542	31.843	378.919	2.90%	44.73%
23.0	767.848	32.594	411.514	2.97%	48.58%
24.0	747.162	33.124	444.637	3.01%	52.48%
25.0	723.910	33.449	478.086	3.04%	56.43%
26.0	696.826	33.537	511.623	3.05%	60.39%
27.0	663.007	33.269	544.892	3.03%	64.32%
28.0	624.611	32.600	577.491	2.97%	68.17%
29.0	581.749	31.562	609.053	2.87%	71.89%
30.0	533.931	30.123	639.176	2.74%	75.45%
31.0	479.526	28.203	667.379	2.57%	78.78%
32.0	426.334	25.952	693.331	2.36%	81.84%
33.0	371.396	23.501	716.833	2.14%	84.61%
34.0	317.629	20.852	737.684	1.90%	87.08%
35.0	267.467	18.171	755.855	1.65%	89.22%
36.0	219.771	15.514	771.369	1.41%	91.05%
37.0	179.084	13.008	784.377	1.18%	92.59%

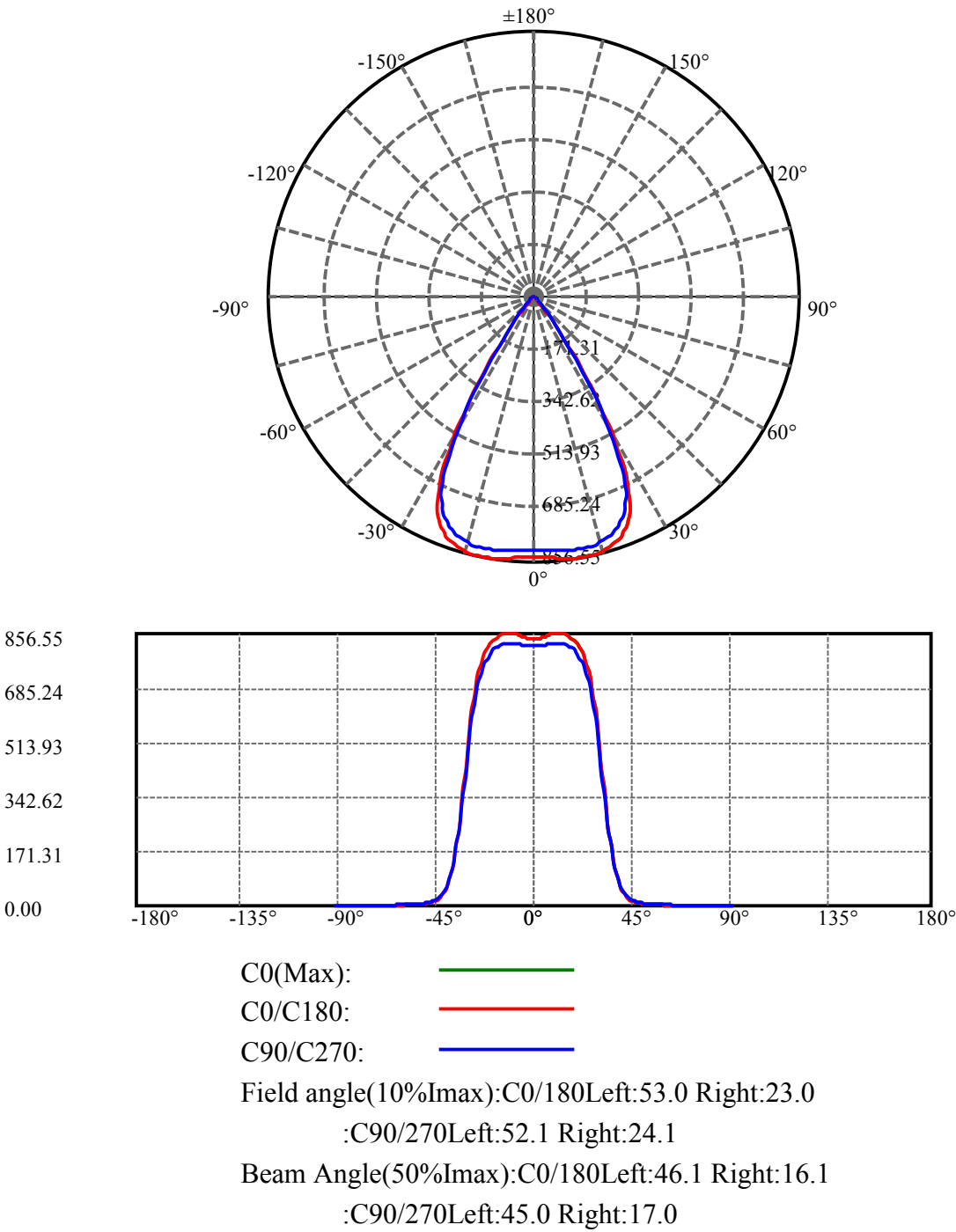
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	144.626	10.805	795.182	0.98%	93.86%
39.0	114.823	8.856	804.038	0.81%	94.91%
40.0	90.817	7.172	811.21	0.65%	95.76%
41.0	69.777	5.719	816.929	0.52%	96.43%
42.0	54.390	4.511	821.44	0.41%	96.96%
43.0	43.009	3.608	825.048	0.33%	97.39%
44.0	33.365	2.883	827.931	0.26%	97.73%
45.0	25.859	2.276	830.207	0.21%	98.00%
46.0	20.845	1.827	832.033	0.17%	98.21%
47.0	16.944	1.503	833.536	0.14%	98.39%
48.0	13.724	1.240	834.776	0.11%	98.54%
49.0	11.402	1.032	835.808	0.09%	98.66%
50.0	9.623	0.877	836.684	0.08%	98.76%
51.0	8.187	0.754	837.438	0.07%	98.85%
52.0	7.020	0.653	838.09	0.06%	98.93%
53.0	6.076	0.570	838.66	0.05%	99.00%
54.0	5.315	0.502	839.162	0.05%	99.05%
55.0	4.682	0.446	839.608	0.04%	99.11%
56.0	4.144	0.399	840.007	0.04%	99.15%
57.0	3.706	0.359	840.366	0.03%	99.20%
58.0	3.336	0.326	840.692	0.03%	99.24%
59.0	3.067	0.299	840.991	0.03%	99.27%
60.0	2.835	0.279	841.27	0.03%	99.30%
61.0	2.666	0.262	841.532	0.02%	99.33%
62.0	2.534	0.251	841.783	0.02%	99.36%
63.0	2.428	0.241	842.024	0.02%	99.39%
64.0	2.354	0.235	842.259	0.02%	99.42%
65.0	2.280	0.229	842.488	0.02%	99.45%
66.0	2.233	0.225	842.713	0.02%	99.47%
67.0	2.169	0.221	842.935	0.02%	99.50%
68.0	2.122	0.217	843.152	0.02%	99.53%
69.0	2.074	0.214	843.366	0.02%	99.55%
70.0	2.032	0.211	843.577	0.02%	99.58%
71.0	1.995	0.208	843.785	0.02%	99.60%
72.0	1.958	0.206	843.991	0.02%	99.62%
73.0	1.911	0.202	844.193	0.02%	99.65%
74.0	1.874	0.199	844.392	0.02%	99.67%
75.0	1.832	0.196	844.588	0.02%	99.70%

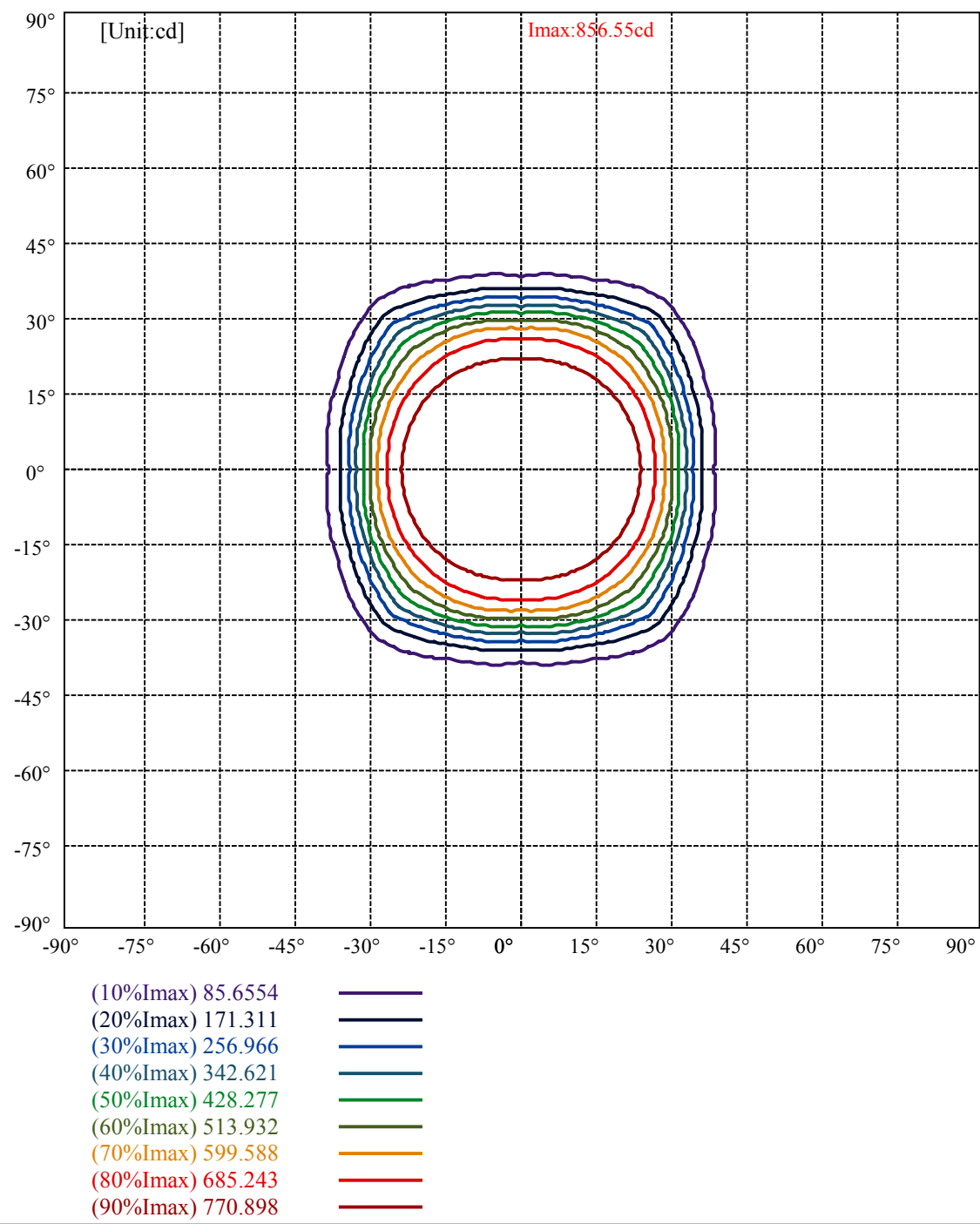
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.789	0.192	844.78	0.02%	99.72%
77.0	1.747	0.189	844.969	0.02%	99.74%
78.0	1.721	0.186	845.154	0.02%	99.76%
79.0	1.700	0.184	845.338	0.02%	99.78%
80.0	1.673	0.182	845.52	0.02%	99.81%
81.0	1.636	0.179	845.699	0.02%	99.83%
82.0	1.578	0.174	845.873	0.02%	99.85%
83.0	1.568	0.171	846.044	0.02%	99.87%
84.0	1.510	0.168	846.212	0.02%	99.89%
85.0	1.489	0.164	846.375	0.01%	99.91%
86.0	1.478	0.162	846.538	0.01%	99.93%
87.0	1.462	0.161	846.699	0.01%	99.94%
88.0	1.430	0.158	846.857	0.01%	99.96%
89.0	1.436	0.157	847.014	0.01%	99.98%
90.0	1.430	0.157	847.171	0.01%	100.00%

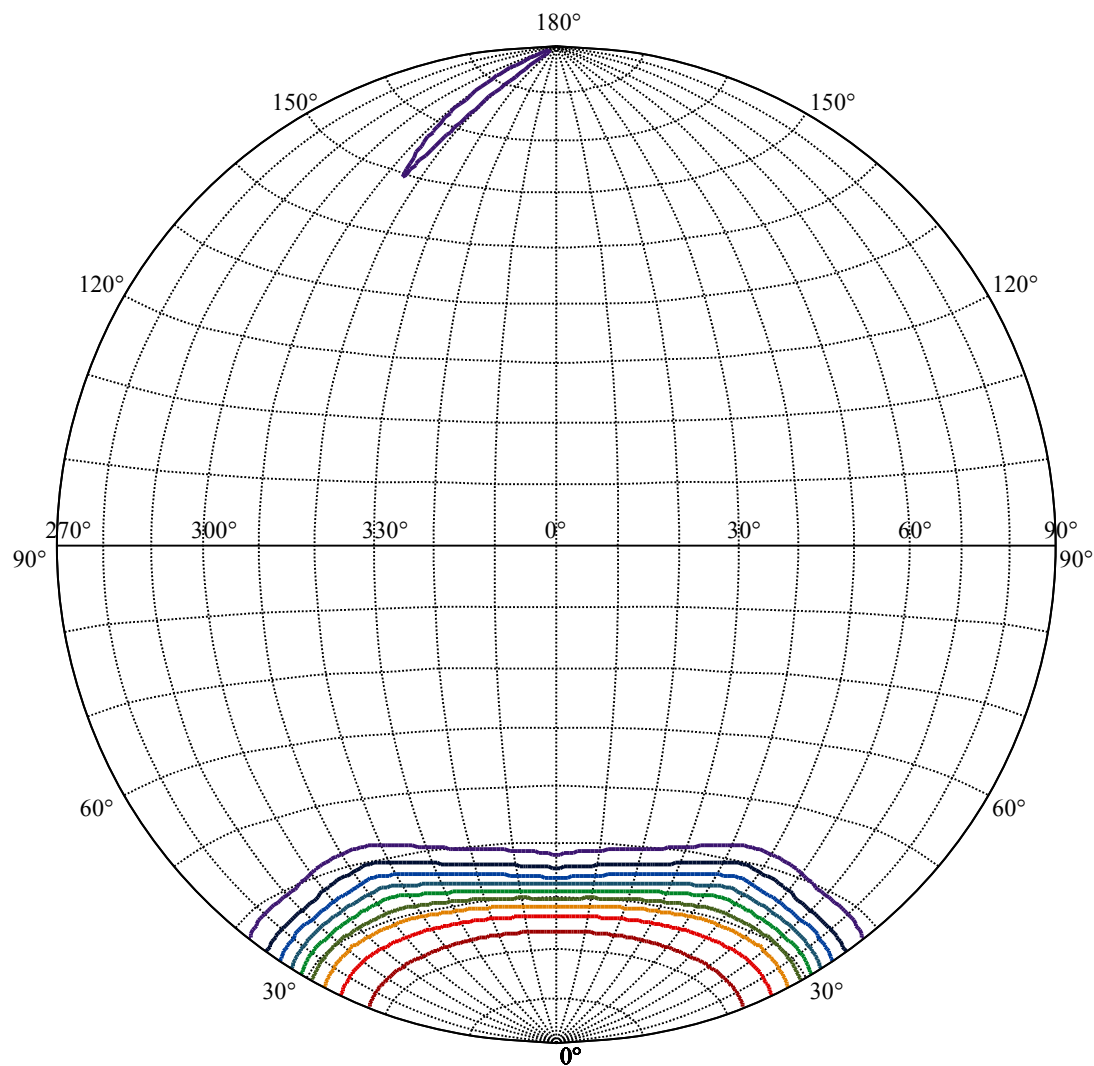
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	639.18	58.16%	75.45%
0-40	811.21	73.82%	95.76%
0-60	841.27	76.55%	99.30%
0-90	847.01	77.08%	99.98%
0-120	847.01	77.08%	99.98%
0-180	847.17	77.09%	100.00%
60-90	5.74	0.52%	0.68%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-31.40	677.74	61.67%	80.00%

ZONAL LUMEN SUMMARY

0-10	79.91
10-20	236.27
20-30	323.00
30-40	172.03
40-50	25.47
50-60	4.59
60-70	2.31
70-80	1.94
80-90	1.49
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





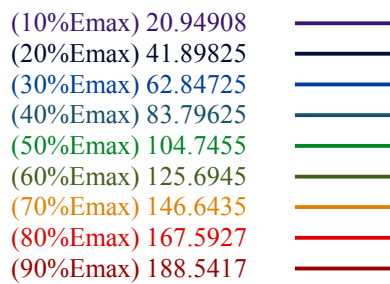


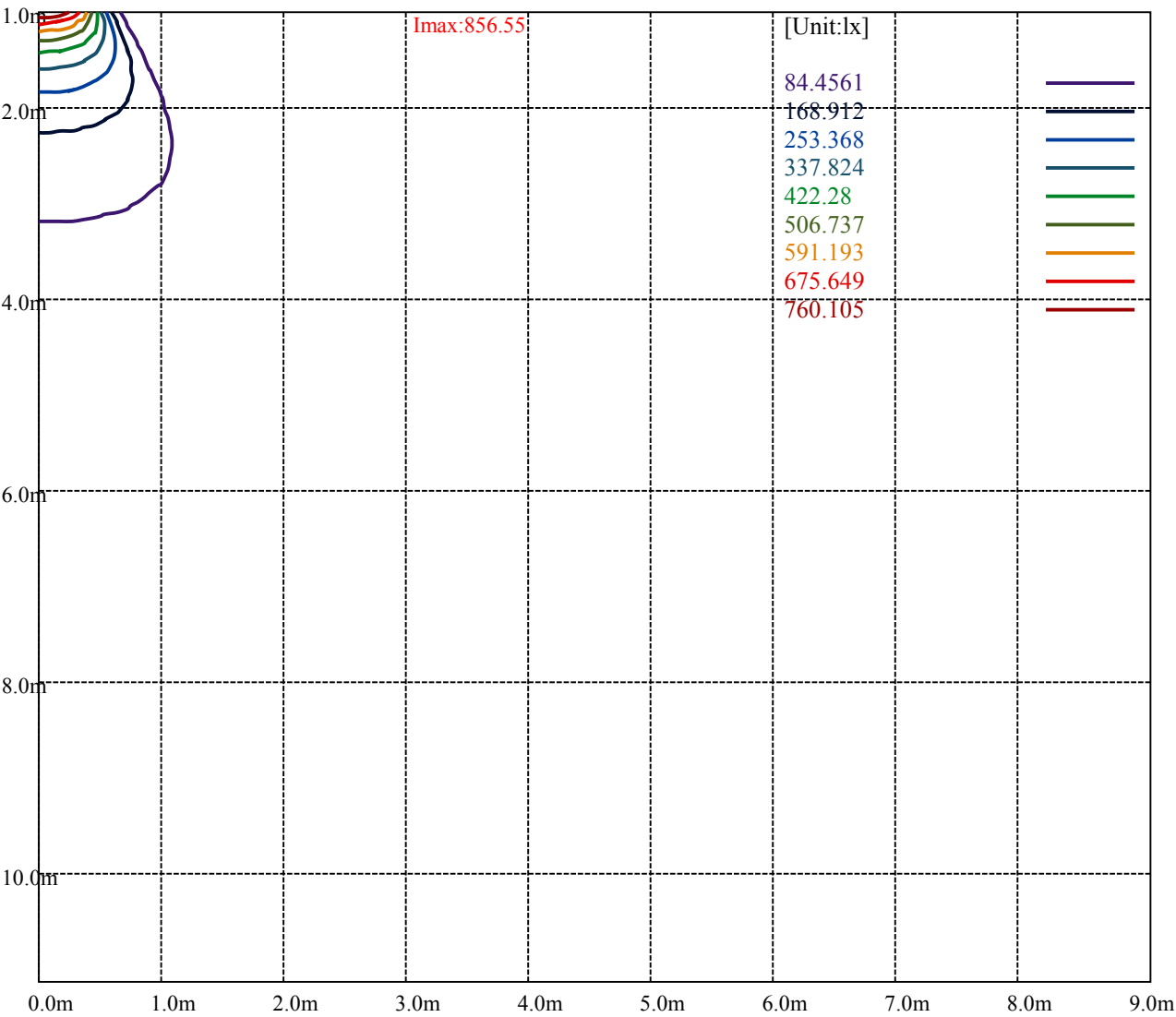
House

[Unit:cd]

Road

Imax:856.55	
(10%Imax) 85.3007	
(20%Imax) 170.601	
(30%Imax) 255.902	
(40%Imax) 341.203	
(50%Imax) 426.503	
(60%Imax) 511.804	
(70%Imax) 597.105	
(80%Imax) 682.405	
(90%Imax) 767.706	





Luminance Table

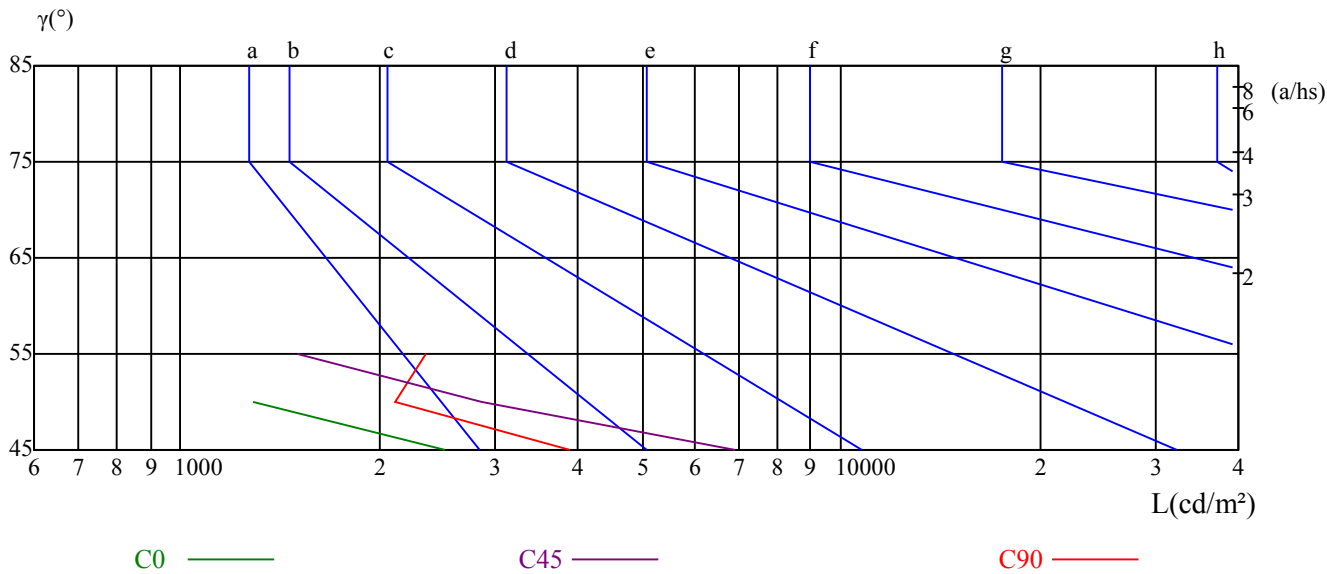
γ	45	50	55	60	65	70	75	80	85
C0	2509	1286	0	0	0	0	0	0	0
C45	6906	2863	1498	0	0	0	0	0	0
C90	3882	2117	2348	0	0	0	0	0	0

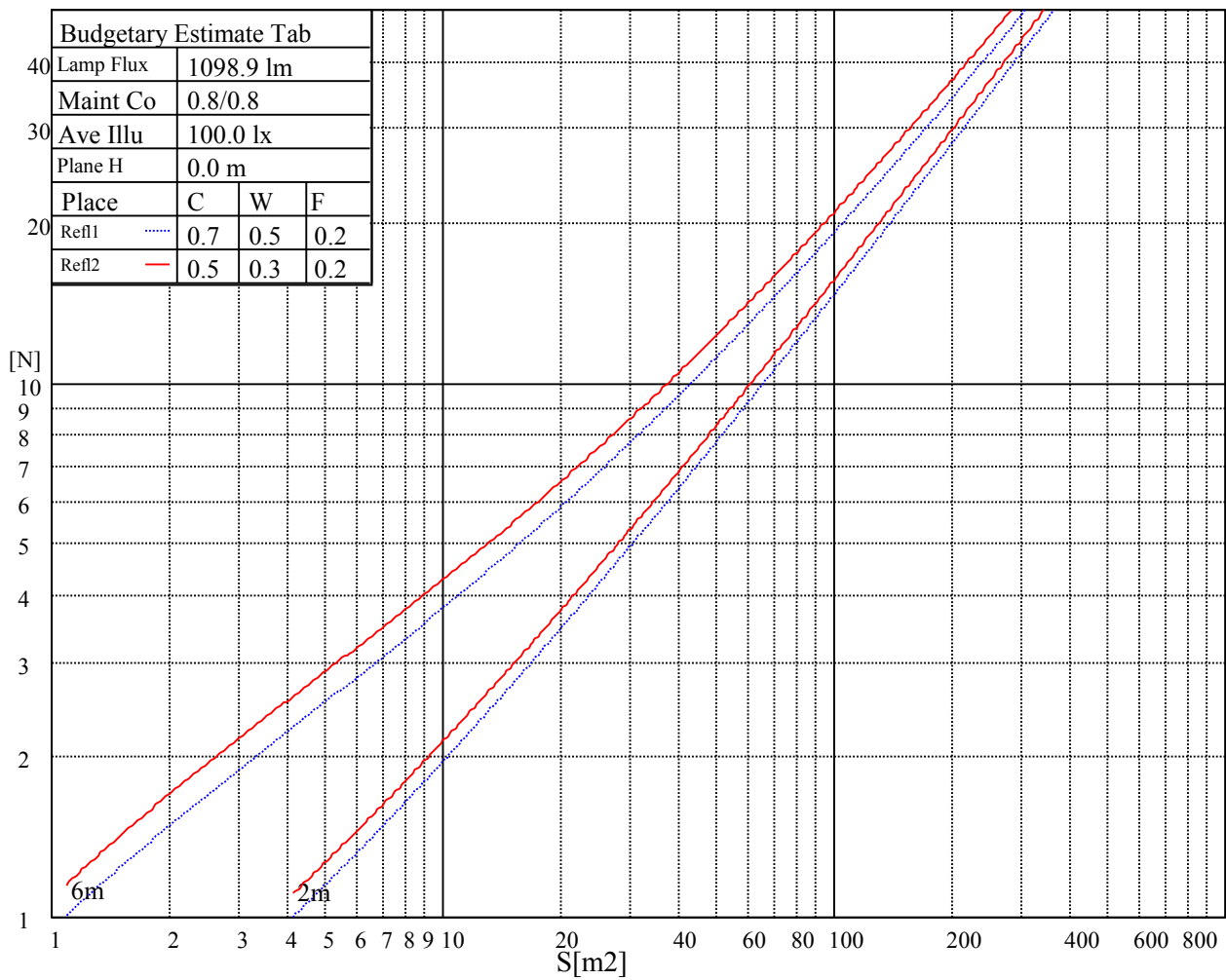
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

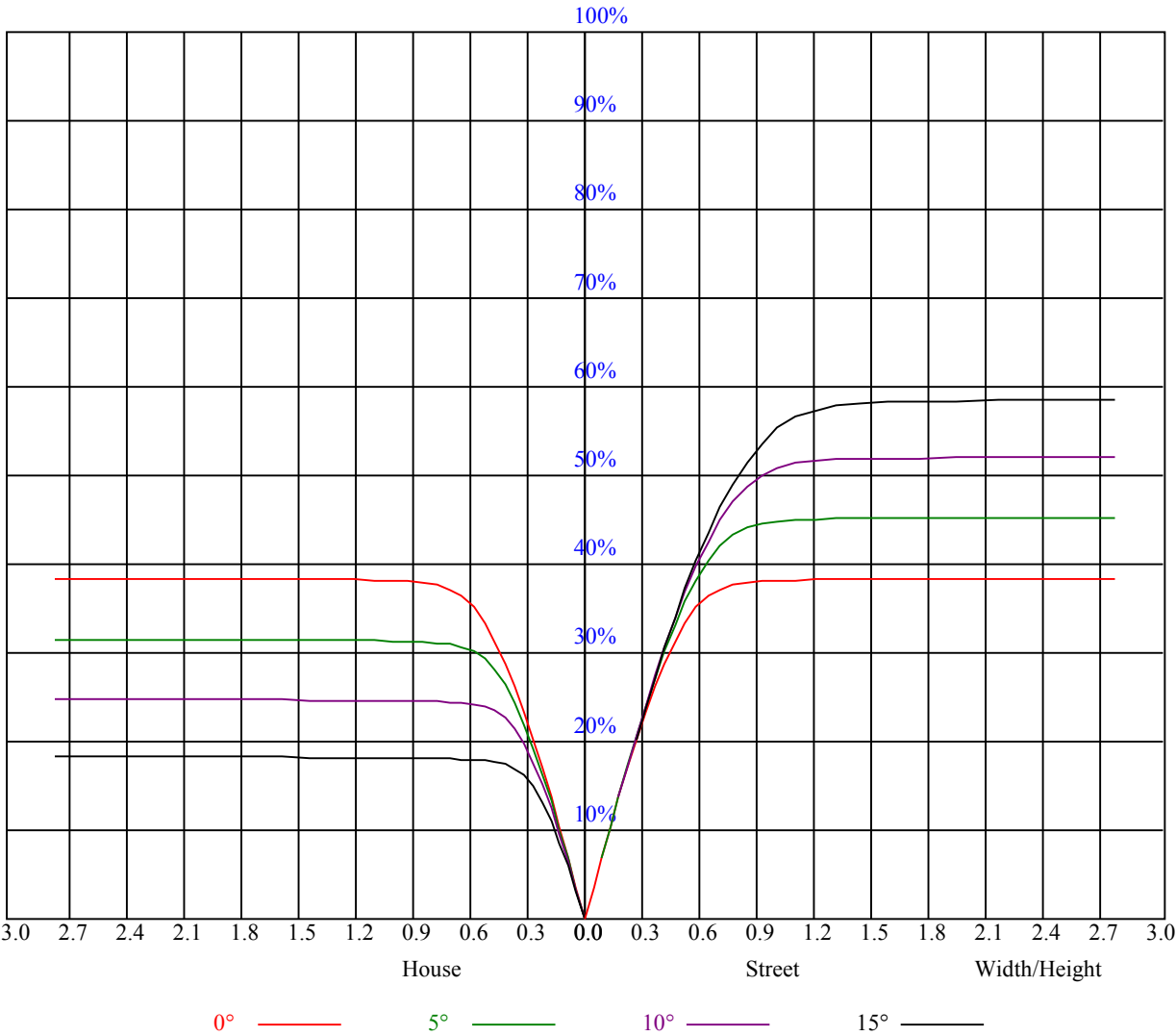
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

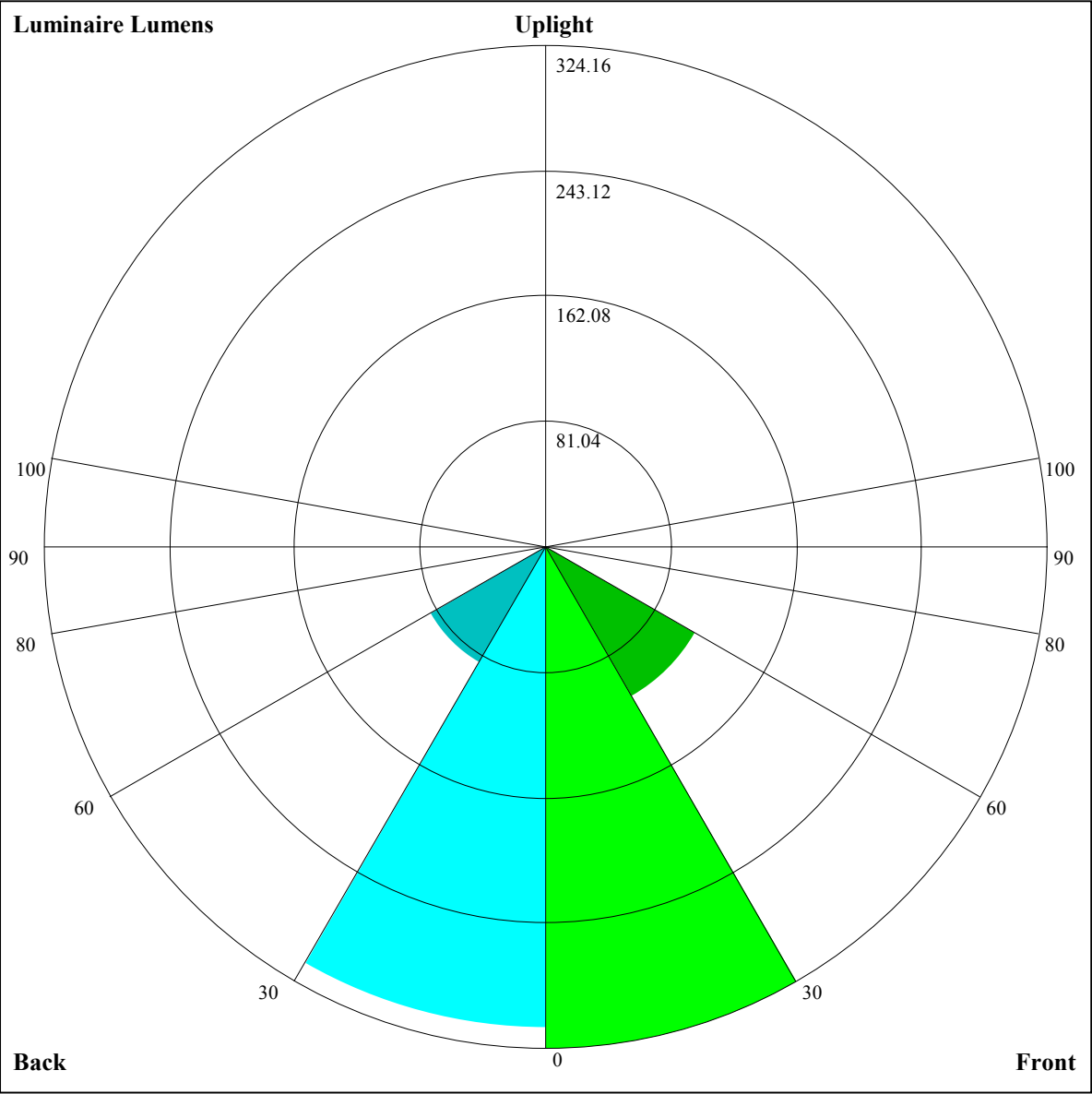
Luminance Limiting Curve





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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	0.91	0.91	0.91	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.78	0.78	0.78	0.77
1	0.85	0.83	0.82	0.84	0.82	0.80	0.81	0.79	0.78	0.78	0.77	0.76	0.75	0.74	0.73	0.72
2	0.79	0.76	0.74	0.78	0.75	0.73	0.76	0.73	0.71	0.73	0.72	0.70	0.71	0.70	0.68	0.67
3	0.74	0.70	0.68	0.73	0.70	0.67	0.71	0.68	0.66	0.69	0.67	0.65	0.68	0.66	0.64	0.63
4	0.69	0.65	0.62	0.69	0.65	0.62	0.67	0.64	0.61	0.65	0.63	0.60	0.64	0.62	0.60	0.58
5	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
6	0.61	0.57	0.53	0.61	0.56	0.53	0.59	0.56	0.53	0.58	0.55	0.53	0.57	0.54	0.52	0.51
7	0.58	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.49	0.55	0.52	0.49	0.54	0.51	0.49	0.48
8	0.54	0.50	0.47	0.54	0.50	0.47	0.53	0.49	0.46	0.52	0.49	0.46	0.51	0.48	0.46	0.45
9	0.51	0.47	0.44	0.51	0.47	0.44	0.50	0.46	0.44	0.49	0.46	0.43	0.49	0.46	0.43	0.42
10	0.48	0.44	0.41	0.48	0.44	0.41	0.47	0.44	0.41	0.47	0.43	0.41	0.46	0.43	0.41	0.40





Luminaire Lumens:
FL=324.16,FM=111.14,FH=2.17,FVH=0.84
BL=311.44,BM=86.86,BH=2.11,BVH=0.82
UL=0,UH=0
BUG Rating:B1-U0-G0

Intensity data(cd)

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C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	840.76	842.70	843.04	844.81	847.77	849.80	851.49	853.09	857.14
22.5	839.32	837.47	837.21	838.48	842.11	841.94	841.69	842.37	845.91
45.0	833.75	833.33	832.23	830.88	831.72	834.09	837.38	840.76	842.79
67.5	831.81	831.39	831.13	830.71	828.09	830.20	832.65	834.76	838.65
90.0	818.89	819.22	818.38	819.48	820.49	822.69	822.43	825.47	827.42
112.5	832.91	833.24	833.16	829.36	826.15	823.87	825.05	827.92	826.99
135.0	834.17	833.84	832.31	832.15	831.13	830.88	830.88	833.16	836.79
157.5	836.12	835.10	835.86	836.03	836.12	836.88	837.55	839.16	840.68
180.0	840.76	840.08	840.08	839.24	839.24	843.13	847.01	852.58	854.53
202.5	839.32	840.59	839.66	838.90	839.49	841.44	843.13	843.97	844.98
225.0	833.75	831.05	829.70	830.46	830.79	830.29	834.60	837.72	842.87
247.5	831.81	831.22	830.96	830.12	830.29	831.05	831.64	834.34	835.19
270.0	818.89	818.30	819.82	819.82	819.56	821.25	822.94	823.19	824.21
292.5	832.91	830.37	825.81	824.38	826.83	828.51	829.95	829.11	831.39
315.0	834.17	832.74	829.95	830.54	831.98	833.75	833.75	834.43	837.30
337.5	836.12	837.21	836.37	836.71	840.00	842.70	844.98	847.18	847.26
360.0	840.76	842.70	843.04	844.81	847.77	849.80	851.49	853.09	857.14

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	859.17	859.09	858.24	856.30	856.22	853.94	852.67	852.58	851.49
22.5	848.95	851.91	853.60	853.01	853.01	854.36	855.79	854.86	849.37
45.0	843.29	843.38	846.59	850.30	849.71	843.89	836.88	831.22	828.01
67.5	840.25	841.01	840.76	839.41	840.34	835.52	832.65	830.88	827.84
90.0	827.50	825.73	826.57	825.64	825.64	822.77	814.66	807.48	801.40
112.5	824.04	823.28	828.18	832.23	833.58	830.71	826.99	818.63	811.45
135.0	840.25	842.11	841.44	839.24	836.45	831.98	825.56	815.25	810.36
157.5	841.10	842.20	843.38	843.38	842.03	842.20	839.24	833.50	831.30
180.0	853.09	849.88	849.97	855.03	856.89	855.37	850.30	841.35	833.58
202.5	846.84	850.64	852.16	851.66	849.29	847.52	846.17	840.76	835.52
225.0	844.39	844.81	844.31	847.01	847.77	846.42	847.18	844.90	838.82
247.5	837.55	836.20	834.76	833.92	834.93	839.92	837.13	830.96	823.28
270.0	825.22	823.19	824.29	827.67	828.94	827.67	825.98	823.45	822.77
292.5	834.26	838.99	841.61	840.76	841.10	839.49	835.52	835.44	835.36
315.0	838.65	837.13	838.65	841.86	843.80	846.00	847.60	847.35	847.94
337.5	849.54	850.81	853.85	857.31	858.16	856.81	858.16	856.89	856.64
360.0	859.17	859.09	858.24	856.30	856.22	853.94	852.67	852.58	851.49

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	848.02	842.20	835.95	829.02	815.93	803.94	789.16	766.69	743.80
22.5	846.50	842.03	836.45	830.63	818.55	804.36	785.27	768.89	751.07
45.0	825.64	819.73	812.21	803.60	791.94	772.94	751.66	722.94	697.52
67.5	820.66	813.48	802.84	791.94	779.19	767.28	745.92	727.00	702.59
90.0	793.55	779.70	767.71	752.08	734.85	711.80	688.82	660.36	615.68
112.5	804.36	795.32	778.35	762.98	745.24	728.26	703.18	681.73	658.84
135.0	805.12	792.11	778.77	762.98	744.73	717.62	690.77	661.21	633.84
157.5	827.42	818.89	804.61	790.42	776.74	755.38	735.02	710.87	674.21
180.0	826.91	820.58	810.27	797.69	782.99	758.92	735.61	705.12	657.74
202.5	826.15	811.45	801.32	787.30	768.89	743.89	718.89	689.58	655.46
225.0	834.51	829.02	816.52	803.85	785.95	769.65	749.89	724.46	702.51
247.5	817.45	810.02	798.87	790.85	780.37	759.01	739.16	716.69	691.10
270.0	821.00	815.93	811.79	805.63	794.99	783.75	767.37	748.28	725.82
292.5	834.51	831.39	824.46	809.85	802.67	785.70	768.13	747.52	728.69
315.0	848.45	844.90	838.56	831.55	824.54	814.92	797.52	782.06	764.50
337.5	853.77	849.12	842.45	834.26	821.08	808.16	788.23	769.14	745.83
360.0	848.02	842.20	835.95	829.02	815.93	803.94	789.16	766.69	743.80

Intensity data(cd)

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C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	705.04	665.26	621.51	570.33	499.30	436.89	372.54	294.75	239.60
22.5	728.43	696.34	665.94	633.25	584.61	539.25	489.85	422.03	366.79
45.0	671.26	634.86	603.86	569.74	524.13	485.62	447.28	409.11	359.78
67.5	668.05	632.58	594.49	536.38	484.10	430.05	359.87	304.97	252.19
90.0	571.26	519.74	447.45	387.82	314.09	259.36	210.04	167.65	124.66
112.5	625.40	594.06	545.08	499.98	449.81	384.11	331.07	278.62	230.73
135.0	600.99	568.56	534.10	489.85	453.28	409.11	371.69	331.91	291.63
157.5	641.70	593.73	549.39	500.40	448.29	393.90	323.89	270.26	222.04
180.0	611.12	559.69	487.14	422.79	358.60	298.30	232.34	183.52	142.65
202.5	607.32	559.78	505.39	447.53	374.90	317.98	251.68	204.30	163.84
225.0	675.23	636.04	602.68	568.14	532.58	496.77	449.73	408.68	365.53
247.5	652.93	619.23	579.45	521.01	468.82	414.59	359.45	290.11	240.62
270.0	697.35	653.86	611.97	561.21	505.30	433.09	372.03	313.59	255.82
292.5	698.87	667.79	631.82	585.37	521.94	467.89	412.23	354.46	277.24
315.0	741.86	712.64	686.63	653.94	621.85	580.21	543.22	491.62	450.32
337.5	711.29	679.62	641.11	595.16	530.81	474.22	415.44	356.49	286.05
360.0	705.04	665.26	621.51	570.33	499.30	436.89	372.54	294.75	239.60
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	191.97	150.84	108.44	83.19	63.68	45.61	35.39	27.79	21.11
22.5	299.06	247.37	200.50	159.45	124.40	92.39	71.28	55.40	42.99
45.0	319.08	278.71	239.18	191.72	158.27	128.20	96.45	76.18	56.16
67.5	204.97	155.91	123.47	96.96	75.67	57.01	45.02	36.06	27.62
90.0	98.05	76.94	59.88	44.25	35.30	28.55	22.30	18.66	15.79
112.5	177.70	141.97	112.16	88.26	68.92	51.60	40.71	30.57	24.66
135.0	243.06	205.06	169.25	137.16	103.63	81.67	63.76	46.96	36.65
157.5	177.95	132.76	102.87	78.63	55.99	43.92	32.18	25.67	20.61
180.0	109.96	79.05	60.47	46.28	33.78	26.27	19.85	16.47	13.60
202.5	121.79	95.10	73.90	53.71	41.55	32.52	25.67	20.69	16.13
225.0	312.15	271.19	233.27	187.66	154.30	115.87	91.55	73.39	57.09
247.5	185.89	148.64	117.82	86.74	67.14	52.19	40.71	32.09	24.32
270.0	192.73	152.02	111.65	86.82	67.48	49.07	37.50	30.15	24.07
292.5	237.58	182.68	145.86	115.03	84.46	65.62	51.18	39.95	29.81
315.0	410.03	357.59	313.59	270.60	232.51	184.37	149.23	121.19	95.77
337.5	234.37	189.52	141.72	110.72	85.98	61.57	47.46	36.91	27.45
360.0	191.97	150.84	108.44	83.19	63.68	45.61	35.39	27.79	21.11
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	17.14	14.19	11.49	9.88	8.61	7.52	6.42	5.74	5.07
22.5	31.25	24.58	18.75	15.46	12.92	10.47	8.95	7.77	6.59
45.0	44.09	34.71	27.62	21.03	17.06	14.02	11.74	9.46	8.02
67.5	22.55	18.83	15.20	13.09	10.98	9.63	8.45	7.52	6.50
90.0	13.18	11.40	9.97	8.70	7.69	6.93	6.17	5.41	4.90
112.5	20.35	16.38	13.94	11.99	9.97	8.70	7.60	6.84	6.00
135.0	28.63	21.45	17.23	14.19	11.32	9.46	8.11	6.76	5.91
157.5	15.88	13.34	11.15	9.54	8.02	7.01	6.17	5.49	4.73
180.0	11.32	9.37	8.11	7.01	6.25	5.41	4.81	4.31	3.88
202.5	13.43	11.40	9.37	8.11	7.09	6.08	5.41	4.65	4.14
225.0	41.38	32.94	26.10	20.61	15.96	13.01	10.73	9.04	7.52
247.5	19.76	16.30	13.77	11.32	9.71	8.19	7.18	6.25	5.41
270.0	18.66	15.88	13.43	11.40	9.71	8.53	7.60	6.50	5.74
292.5	23.99	19.59	16.30	13.18	11.23	9.71	8.19	7.09	6.25
315.0	70.10	55.07	43.66	31.92	25.51	20.35	15.71	12.92	10.81
337.5	22.04	18.07	15.03	12.16	10.39	8.95	7.77	6.59	5.74
360.0	17.14	14.19	11.49	9.88	8.61	7.52	6.42	5.74	5.07

Intensity data(cd)

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C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4.56	3.97	3.63	3.21	2.96	2.70	2.53	2.45	2.45
22.5	5.83	5.15	4.56	3.97	3.63	3.29	3.04	2.70	2.53
45.0	6.93	5.83	5.15	4.56	3.97	3.55	3.21	2.87	2.62
67.5	5.83	5.24	4.65	4.14	3.72	3.38	3.04	2.87	2.70
90.0	4.39	3.97	3.55	3.21	2.96	2.87	2.70	2.70	2.62
112.5	5.32	4.81	4.31	3.80	3.46	3.21	2.87	2.70	2.53
135.0	5.15	4.65	4.05	3.63	3.29	3.04	2.79	2.53	2.36
157.5	4.31	3.88	3.46	3.12	2.87	2.62	2.53	2.45	2.36
180.0	3.46	3.21	2.87	2.70	2.53	2.45	2.45	2.36	2.36
202.5	3.80	3.46	3.04	2.79	2.62	2.45	2.36	2.36	2.28
225.0	6.42	5.32	4.73	4.22	3.72	3.38	3.04	2.79	2.53
247.5	4.81	4.31	3.80	3.46	3.12	2.87	2.70	2.62	2.53
270.0	4.98	4.48	4.05	3.55	3.21	3.04	2.87	2.79	2.70
292.5	5.41	4.81	4.14	3.80	3.38	3.12	2.79	2.62	2.53
315.0	8.70	7.35	6.33	5.57	4.73	4.14	3.72	3.29	2.96
337.5	5.15	4.48	3.97	3.55	3.21	2.96	2.70	2.53	2.45
360.0	4.56	3.97	3.63	3.21	2.96	2.70	2.53	2.45	2.45
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	2.36	2.28	2.28	2.28	2.20	2.11	2.11	2.03	2.03
22.5	2.36	2.28	2.28	2.20	2.11	2.11	2.03	2.03	1.94
45.0	2.45	2.28	2.20	2.11	2.03	2.03	1.94	1.86	1.94
67.5	2.62	2.53	2.45	2.36	2.28	2.28	2.20	2.11	2.11
90.0	2.45	2.45	2.36	2.36	2.28	2.20	2.20	2.11	2.11
112.5	2.53	2.45	2.36	2.28	2.28	2.20	2.20	2.11	2.03
135.0	2.28	2.20	2.11	2.11	2.03	2.03	1.94	1.94	1.86
157.5	2.28	2.28	2.20	2.20	2.11	2.11	2.11	2.03	1.94
180.0	2.28	2.28	2.20	2.20	2.11	2.11	2.03	2.03	1.94
202.5	2.20	2.20	2.11	2.11	2.03	1.94	1.94	1.94	1.86
225.0	2.36	2.28	2.20	2.11	2.11	2.03	1.94	1.94	1.94
247.5	2.45	2.36	2.28	2.28	2.20	2.11	2.11	2.03	2.03
270.0	2.62	2.53	2.45	2.45	2.36	2.28	2.28	2.20	2.20
292.5	2.53	2.45	2.36	2.28	2.28	2.20	2.11	2.11	2.03
315.0	2.70	2.53	2.36	2.20	2.20	2.11	2.03	2.03	1.94
337.5	2.36	2.28	2.28	2.20	2.11	2.11	2.03	2.03	2.03
360.0	2.36	2.28	2.28	2.28	2.20	2.11	2.11	2.03	2.03
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1.94	1.94	1.94	1.86	1.86	1.77	1.77	1.69	1.69
22.5	1.94	1.86	1.86	1.86	1.86	1.77	1.69	1.69	1.69
45.0	1.86	1.77	1.77	1.77	1.69	1.69	1.60	1.60	1.60
67.5	2.03	2.03	1.94	1.86	1.86	1.77	1.77	1.77	1.69
90.0	2.03	1.94	1.94	1.94	1.86	1.77	1.77	1.77	1.69
112.5	2.03	1.94	1.86	1.86	1.77	1.77	1.77	1.69	1.69
135.0	1.86	1.77	1.77	1.77	1.69	1.69	1.69	1.60	1.60
157.5	2.03	1.94	1.94	1.86	1.77	1.77	1.77	1.77	1.69
180.0	1.94	1.94	1.86	1.77	1.77	1.69	1.69	1.69	1.69
202.5	1.86	1.77	1.77	1.77	1.69	1.69	1.69	1.60	1.52
225.0	1.86	1.77	1.77	1.69	1.69	1.69	1.60	1.60	1.60
247.5	1.94	1.94	1.86	1.86	1.77	1.69	1.69	1.69	1.69
270.0	2.11	2.11	2.03	1.94	1.86	1.86	1.77	1.77	1.77
292.5	2.03	1.94	1.94	1.86	1.86	1.77	1.77	1.77	1.77
315.0	1.94	1.94	1.86	1.77	1.77	1.77	1.69	1.69	1.69
337.5	1.94	1.94	1.86	1.86	1.86	1.77	1.77	1.77	1.69
360.0	1.94	1.94	1.94	1.86	1.86	1.77	1.77	1.69	1.69

Intensity data(cd)

Appendix Page: 20 Total:20

C/ $\gamma(^{\circ})$	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.69	1.60	1.60	1.52	1.52	1.44	1.44	1.44	1.44
22.5	1.60	1.60	1.60	1.52	1.52	1.52	1.44	1.44	1.35
45.0	1.52	1.52	1.52	1.44	1.44	1.44	1.44	1.44	1.44
67.5	1.69	1.60	1.60	1.52	1.52	1.52	1.52	1.44	1.44
90.0	1.69	1.60	1.60	1.52	1.52	1.52	1.44	1.44	1.44
112.5	1.69	1.60	1.60	1.52	1.52	1.52	1.44	1.44	1.44
135.0	1.60	1.52	1.52	1.52	1.44	1.44	1.44	1.44	1.44
157.5	1.69	1.69	1.60	1.60	1.44	1.52	1.52	1.44	1.52
180.0	1.60	1.60	1.52	1.44	1.52	1.44	1.44	1.44	1.44
202.5	1.52	1.44	1.52	1.44	1.44	1.44	1.44	1.44	1.44
225.0	1.60	1.52	1.44	1.44	1.44	1.44	1.44	1.44	1.44
247.5	1.60	1.52	1.52	1.44	1.44	1.44	1.44	1.35	1.35
270.0	1.69	1.60	1.60	1.60	1.52	1.52	1.52	1.44	1.44
292.5	1.69	1.60	1.60	1.60	1.52	1.52	1.44	1.44	1.44
315.0	1.60	1.60	1.60	1.52	1.52	1.52	1.52	1.44	1.52
337.5	1.69	1.60	1.60	1.52	1.52	1.44	1.52	1.44	1.44
360.0	1.69	1.60	1.60	1.52	1.52	1.44	1.44	1.44	1.44

C/ $\gamma(^{\circ})$	90.0
0.0	1.52
22.5	1.44
45.0	1.35
67.5	1.44
90.0	1.44
112.5	1.44
135.0	1.44
157.5	1.44
180.0	1.44
202.5	1.44
225.0	1.44
247.5	1.35
270.0	1.44
292.5	1.44
315.0	1.44
337.5	1.44
360.0	1.52