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NT

Client:

LumCAT: 1632-M 铝反光罩

Luminaire: GH36D-B40 Hodel

Report No: 2024509-B002

Ballast type: AC

Test No: 2024509-C002

Voltage(V): 32.890

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.381

Lamp flux(lm): 2175.0

Power (W): 12.531

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2034.64, Efficiency(%): 93.55% , Luminous Efficacy(lm/W): 162.37

Central intensity(cd): 4279.663, Maximum intensity(cd): 4279.663

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=27.6

[C90/270]Total=27.6

Field angle(10%Imax): [C0/180]Total=84.0

[C90/270]Total=84.0

Maximum s/h(1/2): C0_180=0.47 C90_270=0.47

Maximum s/h(1/4): C0_180=0.50 C90_270=0.50

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.55%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.840%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/5/9
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 1632-M 铝反光罩

Zonal flux distribution table

Appendix Page: 2 Total:19

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4279.663	0.000	0	0.00%	0.00%
1.0	4270.738	4.091	4.091	0.19%	0.20%
2.0	4250.328	12.230	16.321	0.56%	0.80%
3.0	4214.630	20.245	36.567	0.93%	1.80%
4.0	4156.546	28.021	64.588	1.29%	3.17%
5.0	4075.200	35.413	100	1.63%	4.91%
6.0	3959.252	42.223	142.224	1.94%	6.99%
7.0	3811.556	48.233	190.457	2.22%	9.36%
8.0	3610.312	53.117	243.574	2.44%	11.97%
9.0	3373.442	56.600	300.173	2.60%	14.75%
10.0	3119.747	58.761	358.934	2.70%	17.64%
11.0	2860.638	59.756	418.691	2.75%	20.58%
12.0	2583.827	59.516	478.206	2.74%	23.50%
13.0	2339.203	58.424	536.63	2.69%	26.37%
14.0	2101.675	56.843	593.473	2.61%	29.17%
15.0	1914.329	55.133	648.607	2.53%	31.88%
16.0	1723.473	53.304	701.911	2.45%	34.50%
17.0	1546.157	50.917	752.828	2.34%	37.00%
18.0	1413.333	48.796	801.623	2.24%	39.40%
19.0	1297.085	47.156	848.779	2.17%	41.72%
20.0	1214.942	45.977	894.756	2.11%	43.98%
21.0	1149.250	45.397	940.153	2.09%	46.21%
22.0	1080.245	44.803	984.956	2.06%	48.41%
23.0	1028.306	44.243	1029.199	2.03%	50.58%
24.0	986.009	44.040	1073.239	2.02%	52.75%
25.0	944.787	43.902	1117.141	2.02%	54.91%
26.0	910.383	43.792	1160.933	2.01%	57.06%
27.0	880.808	43.822	1204.755	2.01%	59.21%
28.0	853.397	43.906	1248.661	2.02%	61.37%
29.0	827.047	43.965	1292.626	2.02%	63.53%
30.0	803.594	44.027	1336.653	2.02%	65.69%
31.0	779.264	44.049	1380.702	2.03%	67.86%
32.0	759.359	44.080	1424.782	2.03%	70.03%
33.0	737.991	44.112	1468.894	2.03%	72.19%
34.0	716.725	44.024	1512.918	2.02%	74.36%
35.0	692.599	43.768	1556.686	2.01%	76.51%
36.0	666.132	43.262	1599.949	1.99%	78.64%
37.0	634.391	42.416	1642.365	1.95%	80.72%

NT 1632-M 铝反光罩

Zonal flux distribution table

Appendix Page: 3 Total:19

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	600.090	41.205	1683.57	1.89%	82.75%
39.0	557.588	39.515	1723.085	1.82%	84.69%
40.0	517.061	37.480	1760.564	1.72%	86.53%
41.0	474.266	35.301	1795.865	1.62%	88.26%
42.0	427.968	32.780	1828.645	1.51%	89.88%
43.0	382.876	30.036	1858.681	1.38%	91.35%
44.0	337.755	27.199	1885.88	1.25%	92.69%
45.0	295.787	24.348	1910.227	1.12%	93.89%
46.0	261.244	21.784	1932.012	1.00%	94.96%
47.0	212.824	18.855	1950.867	0.87%	95.88%
48.0	175.026	15.679	1966.546	0.72%	96.65%
49.0	127.243	12.413	1978.958	0.57%	97.26%
50.0	90.395	9.074	1988.032	0.42%	97.71%
51.0	64.199	6.541	1994.573	0.30%	98.03%
52.0	41.317	4.528	1999.101	0.21%	98.25%
53.0	26.928	2.969	2002.07	0.14%	98.40%
54.0	19.934	2.065	2004.135	0.09%	98.50%
55.0	16.050	1.606	2005.741	0.07%	98.58%
56.0	13.409	1.331	2007.072	0.06%	98.64%
57.0	11.763	1.151	2008.223	0.05%	98.70%
58.0	10.402	1.025	2009.248	0.05%	98.75%
59.0	9.510	0.931	2010.179	0.04%	98.80%
60.0	8.756	0.863	2011.042	0.04%	98.84%
61.0	8.288	0.813	2011.856	0.04%	98.88%
62.0	8.003	0.785	2012.641	0.04%	98.92%
63.0	7.915	0.774	2013.415	0.04%	98.96%
64.0	7.827	0.772	2014.187	0.04%	98.99%
65.0	7.776	0.772	2014.959	0.04%	99.03%
66.0	7.696	0.772	2015.731	0.04%	99.07%
67.0	7.652	0.772	2016.503	0.04%	99.11%
68.0	7.615	0.773	2017.277	0.04%	99.15%
69.0	7.571	0.775	2018.051	0.04%	99.18%
70.0	7.549	0.777	2018.828	0.04%	99.22%
71.0	7.513	0.778	2019.606	0.04%	99.26%
72.0	7.506	0.781	2020.387	0.04%	99.30%
73.0	7.476	0.783	2021.171	0.04%	99.34%
74.0	7.462	0.785	2021.956	0.04%	99.38%
75.0	7.447	0.788	2022.744	0.04%	99.42%

NT 1632-M 铝反光罩

Zonal flux distribution table

Appendix Page: 4 Total:19

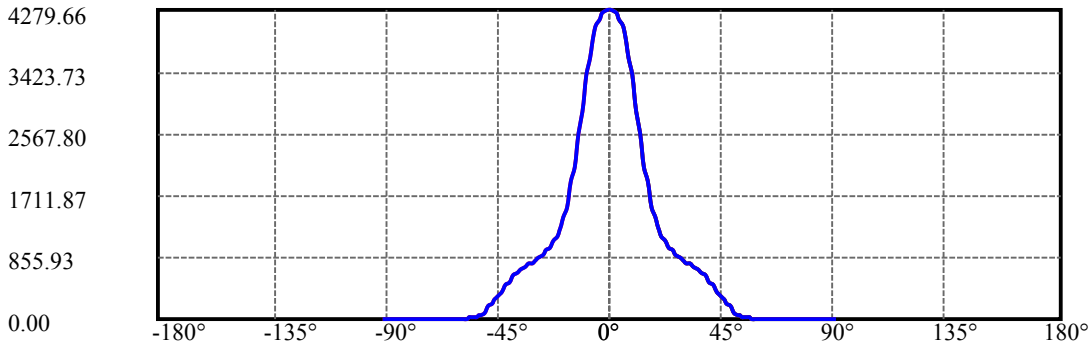
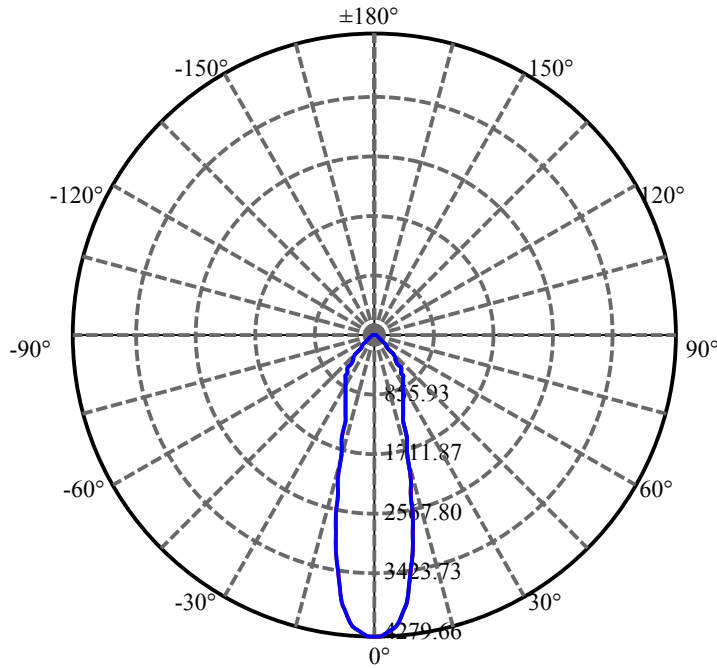
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.403	0.788	2023.532	0.04%	99.45%
77.0	7.396	0.789	2024.321	0.04%	99.49%
78.0	7.381	0.791	2025.112	0.04%	99.53%
79.0	7.359	0.792	2025.904	0.04%	99.57%
80.0	7.345	0.793	2026.697	0.04%	99.61%
81.0	7.330	0.794	2027.49	0.04%	99.65%
82.0	7.308	0.794	2028.284	0.04%	99.69%
83.0	7.308	0.795	2029.079	0.04%	99.73%
84.0	7.286	0.795	2029.874	0.04%	99.77%
85.0	7.271	0.795	2030.668	0.04%	99.80%
86.0	7.264	0.795	2031.463	0.04%	99.84%
87.0	7.257	0.795	2032.257	0.04%	99.88%
88.0	7.257	0.795	2033.053	0.04%	99.92%
89.0	7.249	0.795	2033.848	0.04%	99.96%
90.0	7.257	0.795	2034.643	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1336.65	61.46%	65.69%
0-40	1760.56	80.95%	86.53%
0-60	2011.04	92.46%	98.84%
0-90	2033.85	93.51%	99.96%
0-120	2033.85	93.51%	99.96%
0-180	2034.64	93.55%	100.00%
60-90	22.81	1.05%	1.12%
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%
0-36.65	1627.71	74.84%	80.00%

ZONAL LUMEN SUMMARY

0-10	358.93
10-20	535.82
20-30	441.90
30-40	423.91
40-50	227.47
50-60	23.01
60-70	7.79
70-80	7.87
80-90	7.15
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: —————

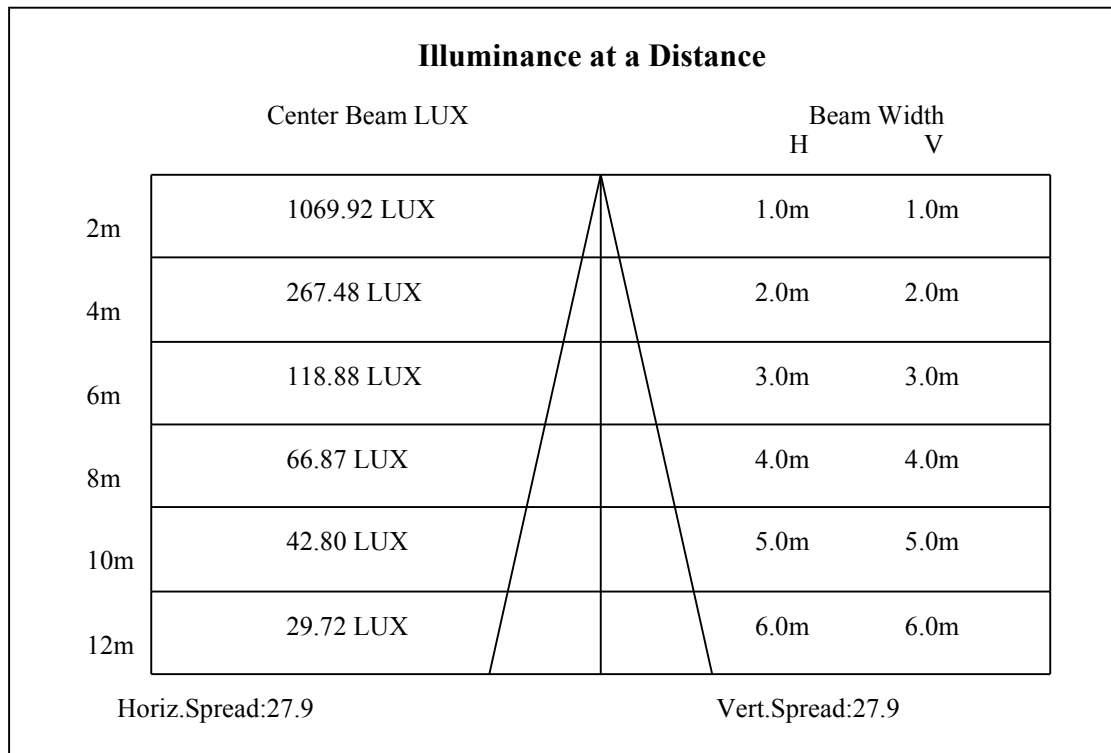
C90/C270: —————

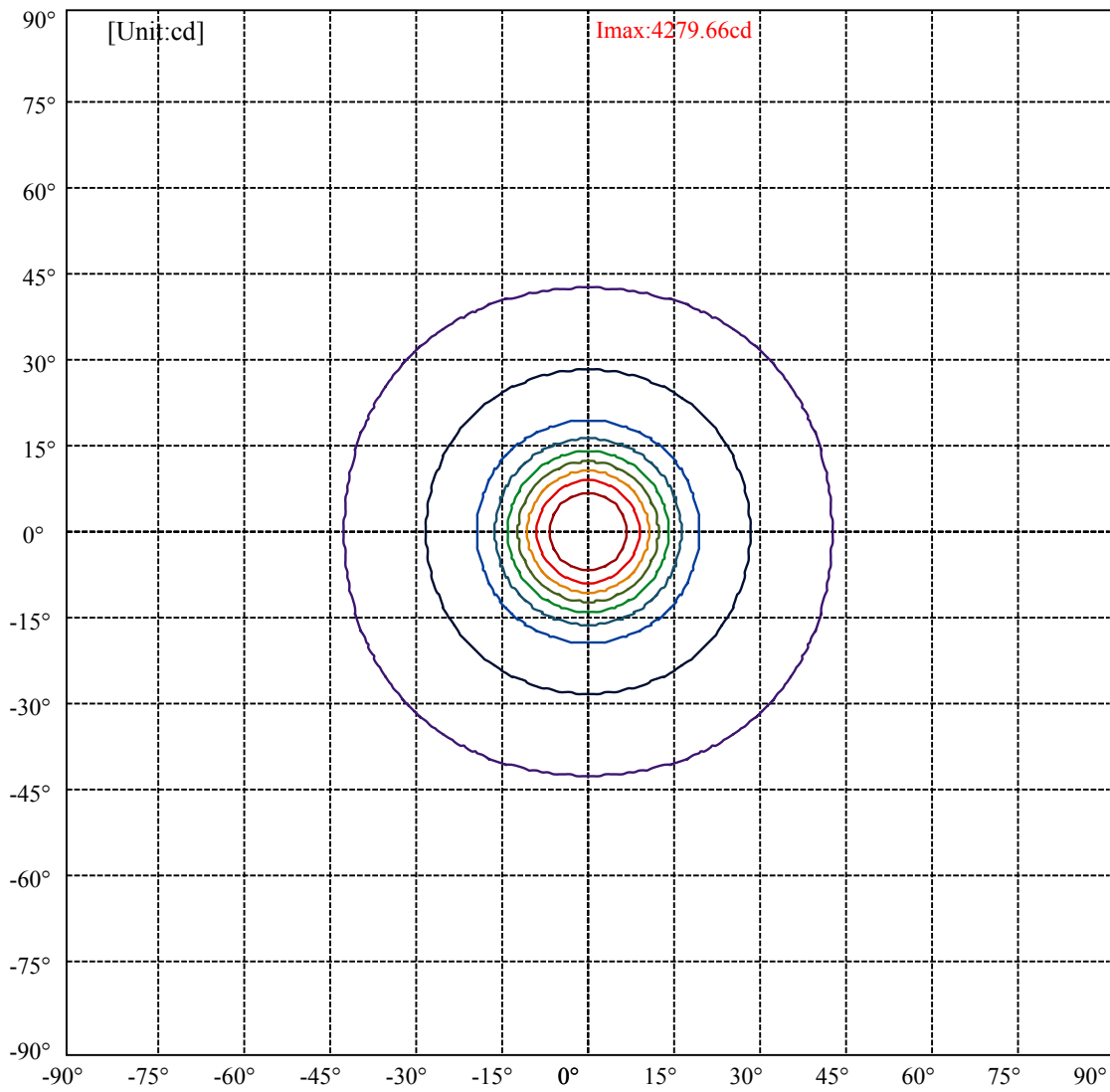
Field angle(10%Imax):C0/180Left:42.0 Right:42.0

:C90/270Left:42.0 Right:42.0

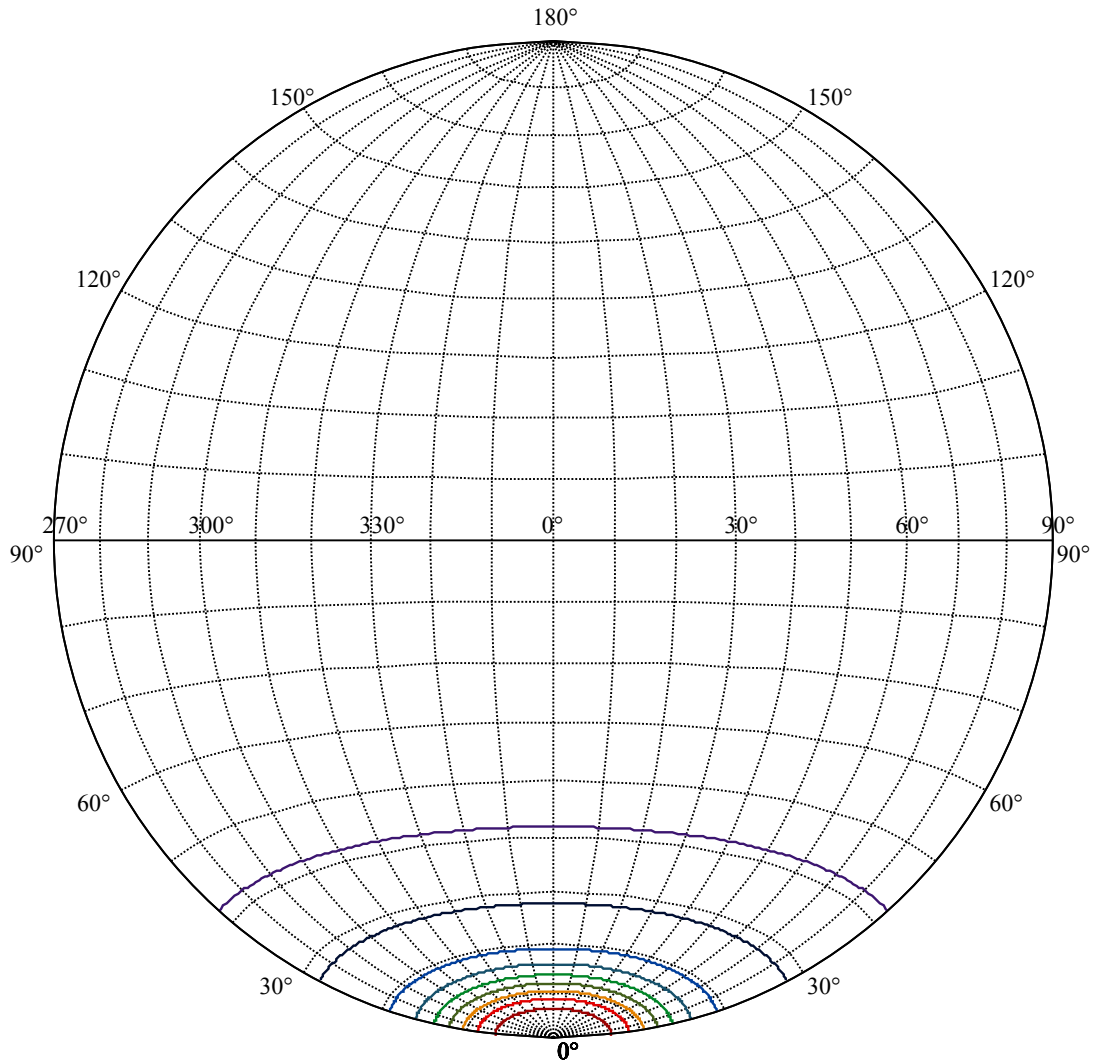
Beam Angle(50%Imax):C0/180Left:13.8 Right:13.8

:C90/270Left:13.8 Right:13.8





(10%Imax)	427.966	—
(20%Imax)	855.933	—
(30%Imax)	1283.9	—
(40%Imax)	1711.87	—
(50%Imax)	2139.83	—
(60%Imax)	2567.8	—
(70%Imax)	2995.76	—
(80%Imax)	3423.73	—
(90%Imax)	3851.7	—



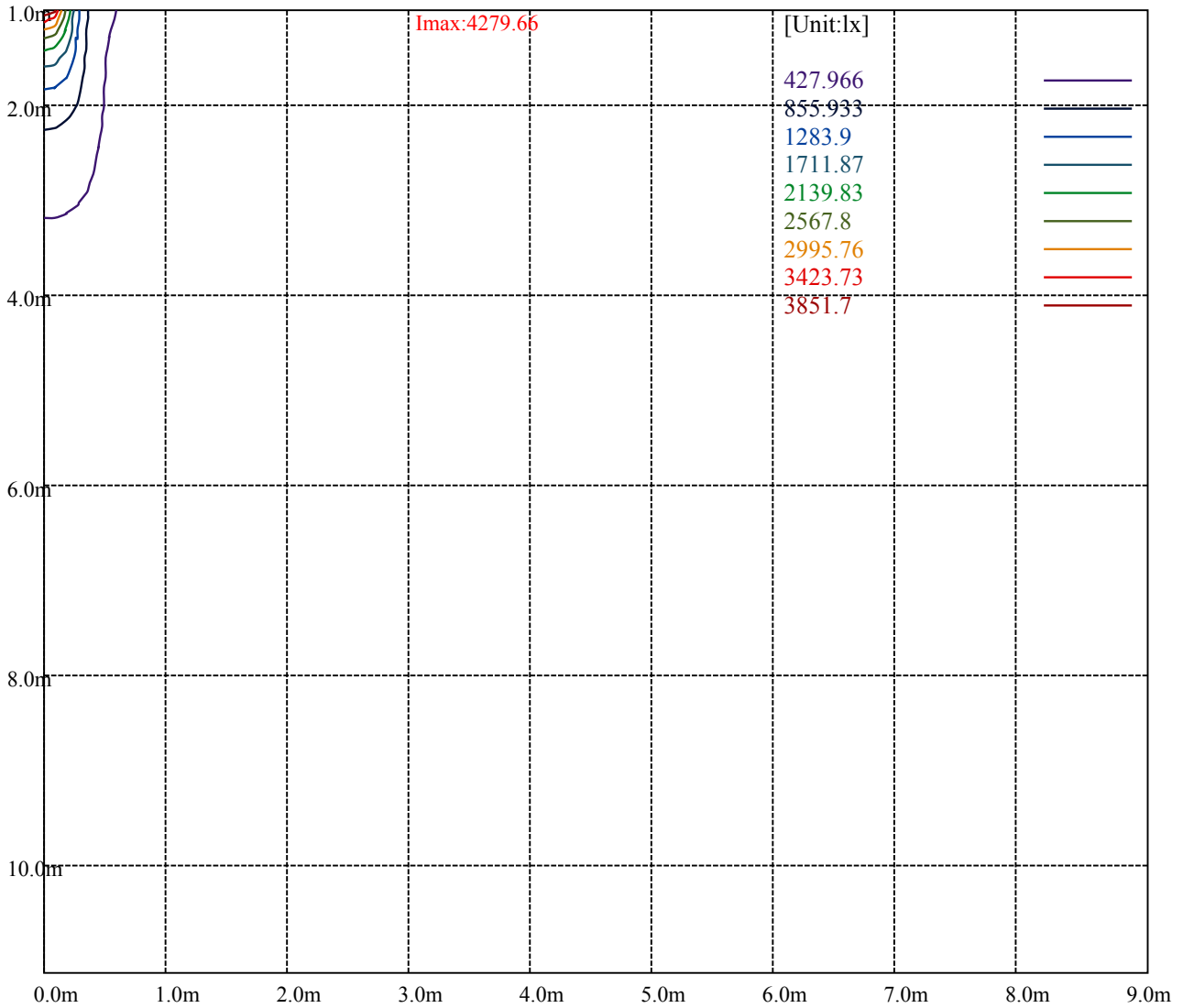
House

[Unit:cd]

Road

Imax:4279.66

(10%Imax)	427.966	—
(20%Imax)	855.933	—
(30%Imax)	1283.9	—
(40%Imax)	1711.87	—
(50%Imax)	2139.83	—
(60%Imax)	2567.8	—
(70%Imax)	2995.76	—
(80%Imax)	3423.73	—
(90%Imax)	3851.7	—



NT 1632-M 铝反光罩

Luminance Limiting Curve(no luminous side)

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Luminance Table

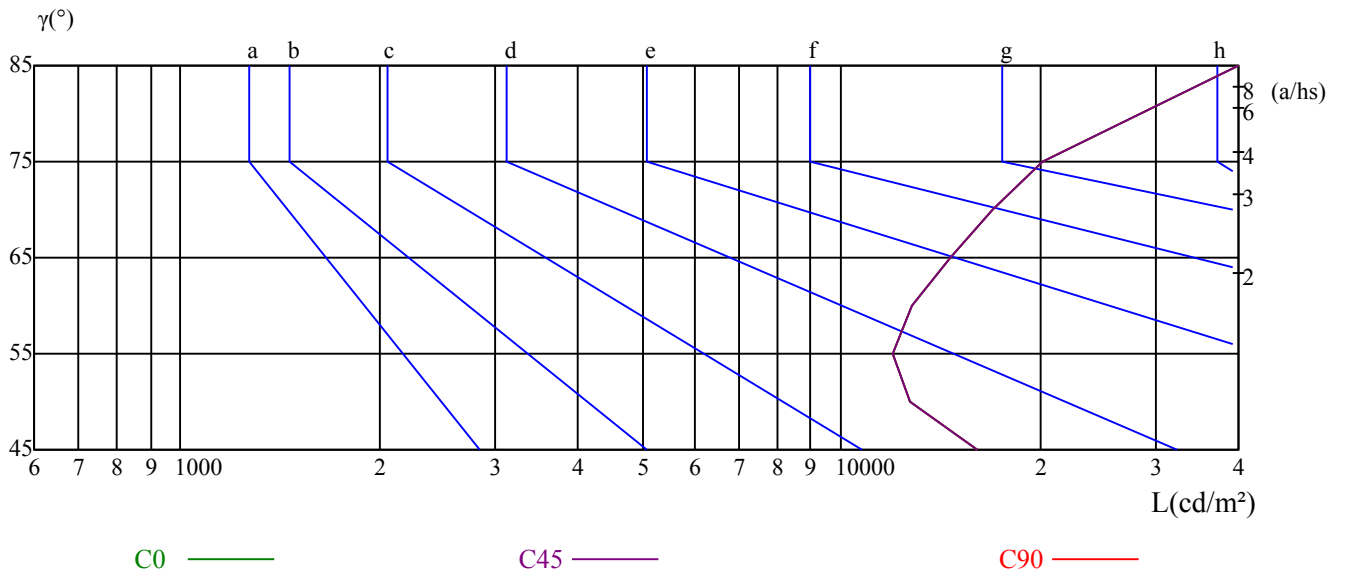
γ	45	50	55	60	65	70	75	80	85
C0	16110	12707	11994	12838	14615	16996	20243	28497	54367
C45	16110	12707	11994	12838	14615	16996	20243	28497	54367
C90	16110	12707	11994	12838	14615	16996	20243	28497	54367

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14615	14615	14615	20243	20243	20243	54367	54367	54367

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

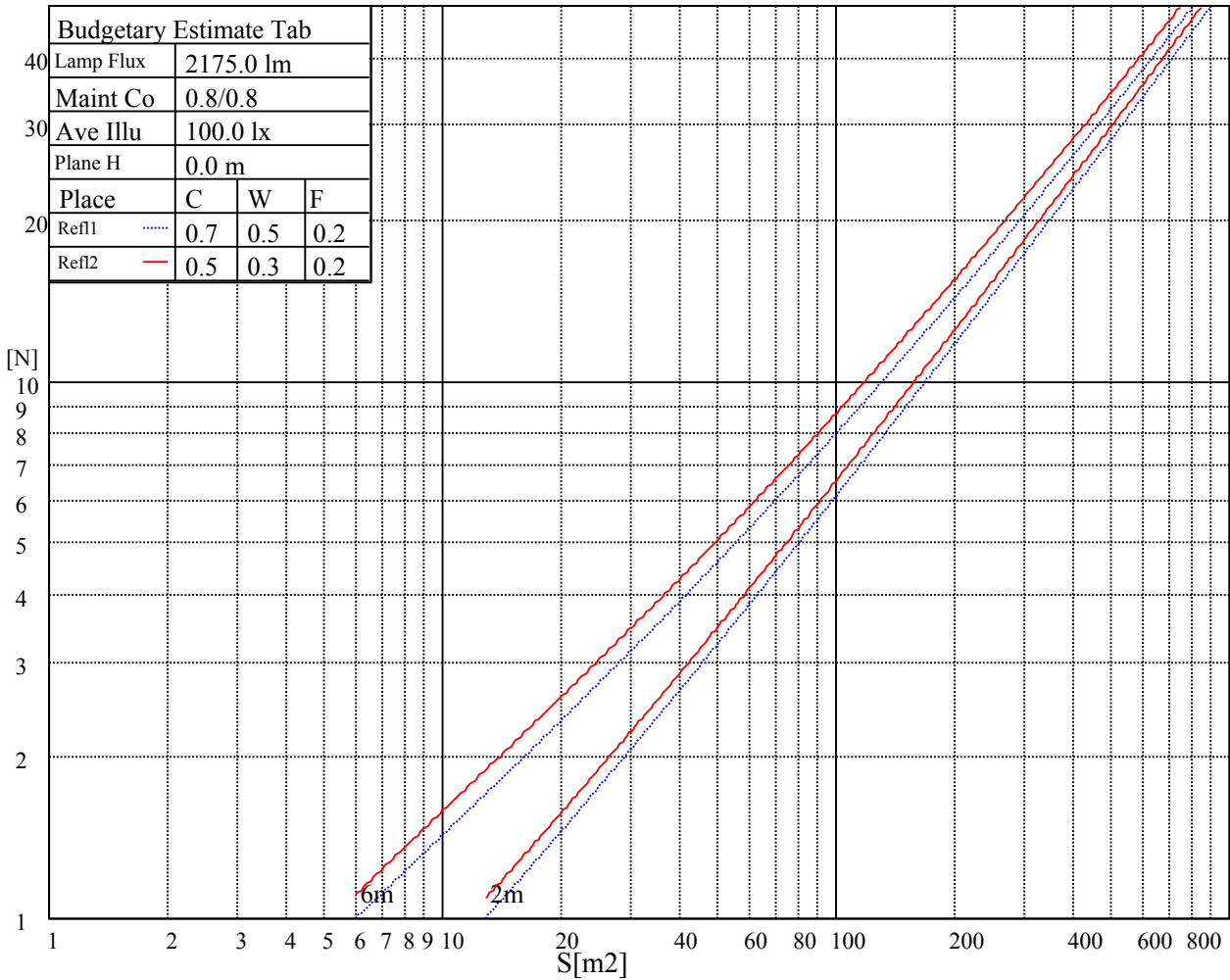
Luminance Limiting Curve



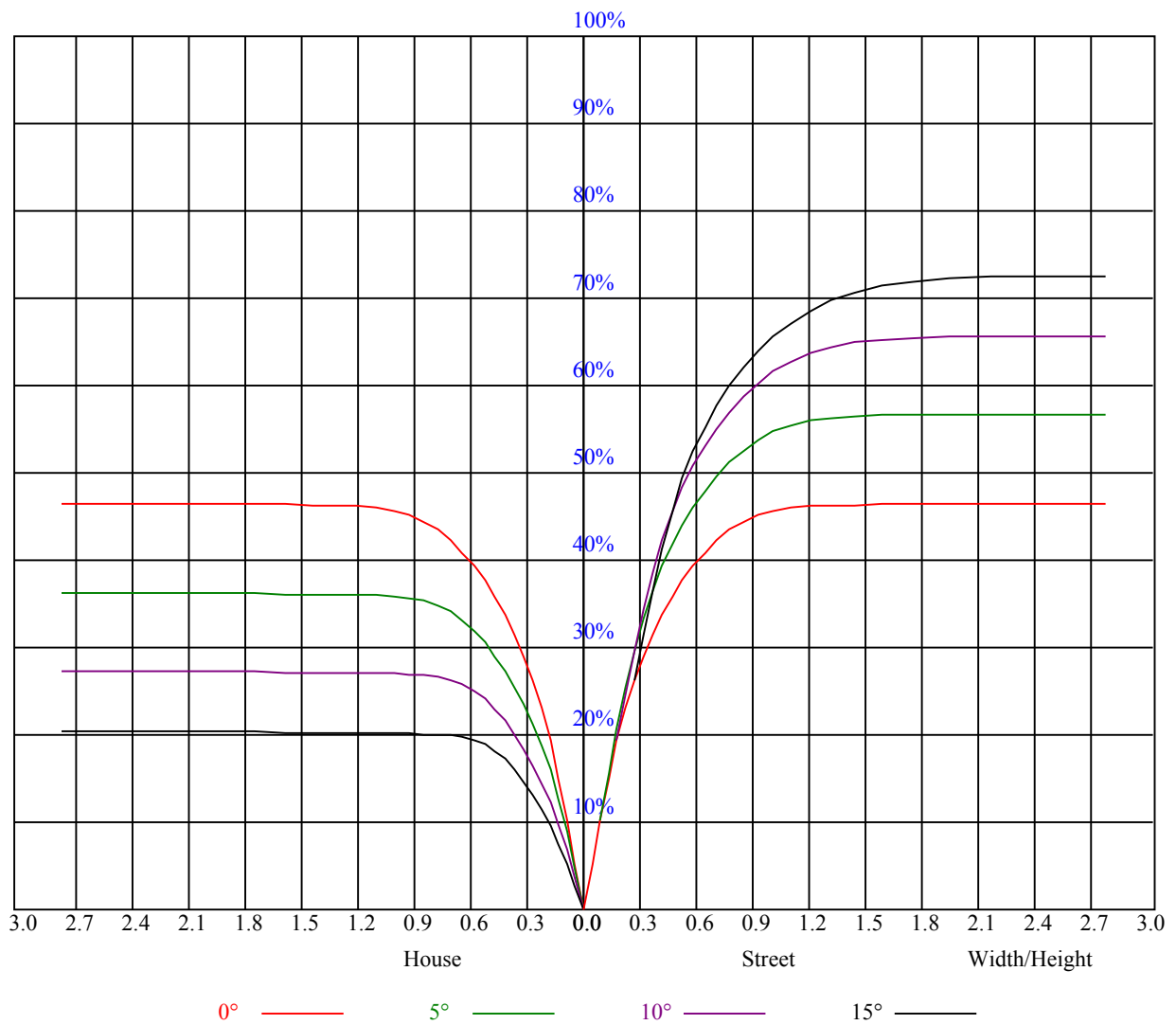
Equipment: GMS1980
Temperature($^{\circ}C$): 25.0

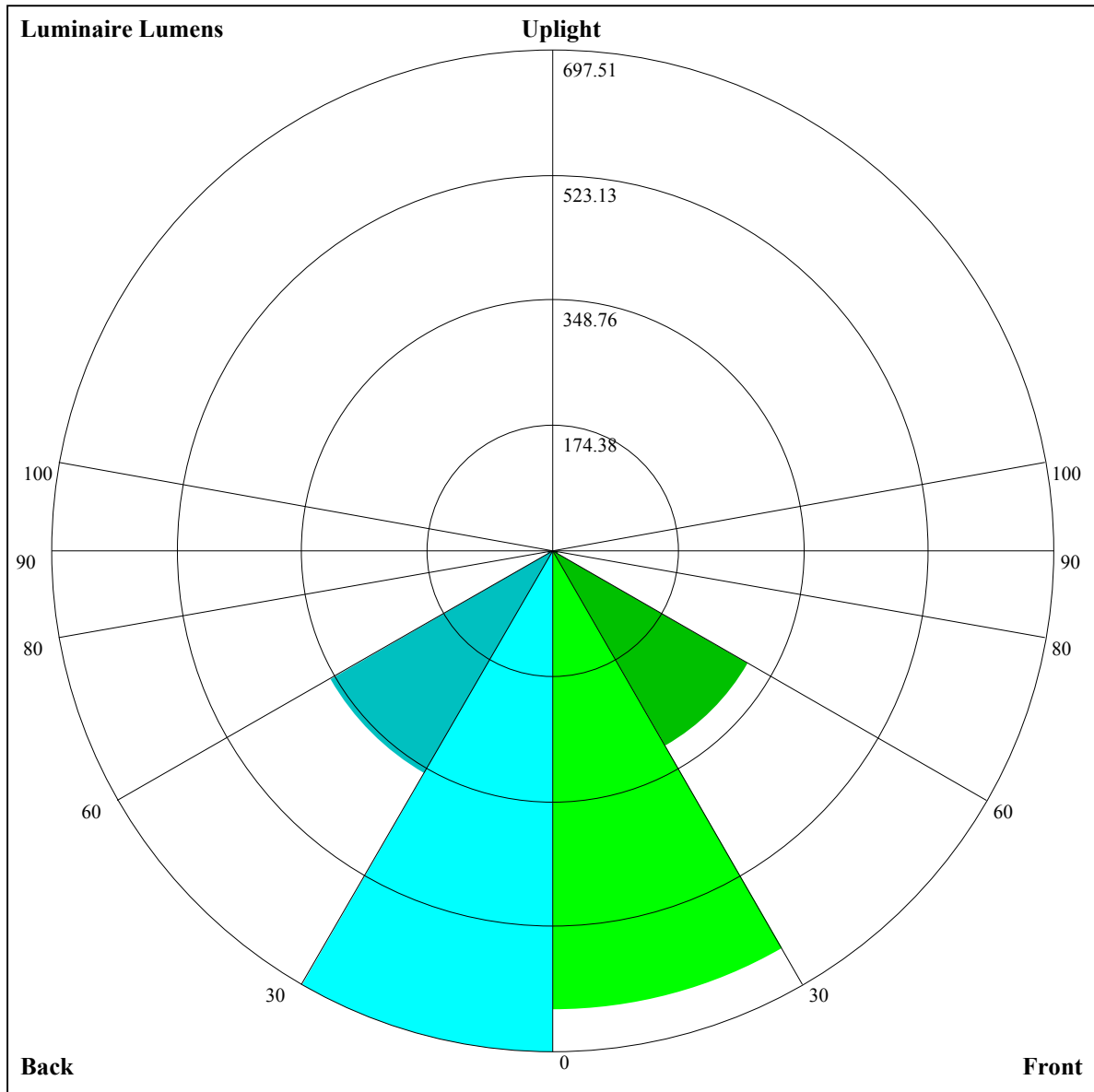
Date: 2024/5/9
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65



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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.94
1	1.03	1.01	0.99	1.01	0.99	0.97	0.98	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.96	0.92	0.89	0.95	0.91	0.88	0.92	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.83	0.81
3	0.90	0.85	0.81	0.88	0.84	0.81	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.76
4	0.84	0.79	0.75	0.83	0.78	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.70
5	0.79	0.73	0.69	0.78	0.73	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.66
6	0.74	0.69	0.65	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.69	0.66	0.63	0.62
7	0.70	0.64	0.60	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.58
8	0.66	0.61	0.57	0.66	0.60	0.57	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.55
9	0.63	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.52
10	0.60	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.58	0.53	0.50	0.57	0.53	0.50	0.49





Luminaire Lumens:

FL=639.4,FM=315.39,FH=7.8,FVH=3.97

BL=697.51,BM=358.37,BH=7.89,BVH=3.98

UL=0,UH=0

BUG Rating:B2-U0-G0

NT 1632-M 铝反光罩

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	4275.71	4240.60	4195.54	4121.21	4003.58	3870.15	3702.19	3482.73	3169.05
45.0	4282.15	4279.81	4262.84	4227.14	4186.76	4094.88	3995.39	3857.28	3633.72
90.0	4285.08	4274.54	4255.81	4227.72	4177.98	4076.15	3970.81	3828.02	3637.23
135.0	4275.71	4286.25	4289.17	4278.05	4248.79	4211.92	4151.64	4066.20	3911.12
180.0	4275.71	4283.91	4282.15	4272.79	4254.64	4221.29	4159.84	4082.00	3966.13
225.0	4282.15	4271.03	4248.79	4220.12	4151.06	4082.59	3942.72	3796.41	3606.80
270.0	4285.08	4280.39	4268.10	4231.24	4176.81	4109.51	4012.36	3846.16	3665.91
315.0	4275.71	4249.38	4200.22	4138.77	4052.74	3935.11	3739.06	3533.65	3292.53
360.0	4275.71	4240.60	4195.54	4121.21	4003.58	3870.15	3702.19	3482.73	3169.05
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2903.94	2644.11	2397.73	2120.91	1926.03	1712.43	1564.95	1438.54	1161.79
45.0	3409.58	3157.93	2822.60	2564.51	2323.99	2051.27	1861.07	1689.02	1510.52
90.0	3349.89	3083.61	2813.24	2491.95	2255.52	1996.26	1810.74	1645.13	1507.01
135.0	3747.84	3540.08	3296.05	2964.81	2702.04	2452.15	2222.74	1962.32	1778.56
180.0	3820.41	3585.15	3344.62	3088.88	2831.38	2514.19	2288.29	2072.93	1834.74
225.0	3321.21	3073.66	2830.21	2589.09	2308.77	2108.04	1922.52	1718.86	1573.14
270.0	3403.73	3162.61	2912.14	2604.31	2367.29	2155.44	1974.61	1759.24	1615.86
315.0	3030.94	2710.82	2468.54	2246.15	1998.60	1823.62	1669.71	1501.75	1387.63
360.0	2903.94	2644.11	2397.73	2120.91	1926.03	1712.43	1564.95	1438.54	1161.79
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1161.79	1144.58	1084.01	1020.81	978.50	940.28	908.68	874.21	848.69
45.0	1390.55	1290.48	1205.04	1133.05	1059.90	1009.57	968.02	922.37	890.77
90.0	1363.05	1165.42	1165.42	1115.97	1044.39	998.69	957.84	914.94	886.97
135.0	1621.13	1456.68	1346.66	1233.71	1162.32	1098.53	1046.44	990.84	954.56
180.0	1677.90	1534.52	1379.43	1283.46	1182.80	1119.59	1066.34	1021.28	982.07
225.0	1450.25	1261.22	1162.49	1162.49	1090.33	1040.24	999.56	963.16	924.83
270.0	1489.46	1371.24	1254.78	1179.29	1114.91	1049.95	1006.65	968.61	926.47
315.0	1152.54	1152.54	1121.70	1065.23	1008.81	969.60	934.55	902.89	868.71
360.0	1161.79	1144.58	1084.01	1020.81	978.50	940.28	908.68	874.21	848.69
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	823.82	799.94	773.61	753.89	730.71	711.87	694.14	665.99	637.02
45.0	863.27	832.25	807.67	786.60	760.85	743.29	723.98	706.43	682.43
90.0	857.59	828.33	805.74	784.67	758.57	739.72	720.70	702.56	673.36
135.0	920.62	891.94	859.75	836.35	808.84	788.94	769.63	746.22	726.91
180.0	941.69	911.84	884.92	855.07	832.25	810.01	784.85	766.12	746.22
225.0	895.51	871.11	847.05	823.65	796.14	774.95	754.18	729.54	708.65
270.0	898.96	871.46	841.03	818.20	795.96	774.90	749.15	728.66	709.94
315.0	845.01	820.31	796.61	770.33	750.79	731.18	707.30	688.28	656.27
360.0	823.82	799.94	773.61	753.89	730.71	711.87	694.14	665.99	637.02
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	605.12	560.94	521.61	479.07	436.69	382.91	339.55	296.07	252.93
45.0	654.93	625.08	591.72	545.49	505.69	456.53	416.74	375.19	324.27
90.0	644.51	612.20	576.97	530.16	492.06	453.02	402.63	362.20	310.34
135.0	708.18	685.36	649.07	613.96	577.68	540.22	489.89	448.34	405.62
180.0	722.81	702.33	675.99	638.54	602.26	565.39	514.47	471.16	427.27
225.0	679.80	646.56	613.55	566.73	526.59	484.45	443.48	390.75	347.97
270.0	688.28	652.00	618.06	582.36	533.78	493.40	442.49	399.18	356.46
315.0	625.43	590.67	553.74	504.41	461.74	418.20	374.49	320.12	277.16
360.0	605.12	560.94	521.61	479.07	436.69	382.91	339.55	296.07	252.93

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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	201.61	162.11	116.87	85.27	58.41	34.29	23.58	19.90	17.21
45.0	303.21	303.21	190.26	152.51	116.87	83.75	50.68	31.43	21.95
90.0	270.26	229.99	181.83	146.42	112.19	80.76	54.43	29.90	21.24
135.0	352.95	310.23	299.69	247.43	172.17	125.65	100.31	62.15	38.98
180.0	382.21	328.37	296.18	296.18	197.63	148.82	113.07	80.82	48.22
225.0	306.25	265.93	216.07	177.73	140.51	97.85	68.00	38.68	24.46
270.0	314.32	304.38	253.75	180.95	144.84	102.53	72.51	47.17	25.52
315.0	235.49	185.75	147.94	113.71	75.32	49.51	31.02	20.48	17.85
360.0	201.61	162.11	116.87	85.27	58.41	34.29	23.58	19.90	17.21
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	13.17	11.35	10.42	9.48	8.54	8.13	8.02	7.90	7.84
45.0	19.08	15.45	12.23	10.65	9.54	8.60	8.19	8.08	7.96
90.0	18.90	15.45	12.41	11.12	10.01	9.01	8.72	8.49	8.02
135.0	23.29	19.14	17.15	15.04	12.06	10.71	9.48	8.43	8.13
180.0	30.31	20.72	17.67	15.57	13.75	12.47	10.53	8.84	8.19
225.0	19.84	16.68	13.34	11.18	10.30	9.31	8.66	8.49	8.02
270.0	19.61	17.26	13.17	11.00	9.89	9.07	8.31	8.13	8.02
315.0	15.27	12.35	10.89	10.07	9.13	8.78	8.13	7.96	7.84
360.0	13.17	11.35	10.42	9.48	8.54	8.13	8.02	7.90	7.84
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.78	7.72	7.67	7.61	7.61	7.55	7.55	7.49	7.49
45.0	7.90	7.78	7.78	7.67	7.67	7.61	7.55	7.55	7.49
90.0	7.90	7.84	7.78	7.72	7.67	7.61	7.55	7.55	7.49
135.0	8.08	7.96	7.90	7.78	7.72	7.67	7.61	7.61	7.55
180.0	8.02	7.90	7.84	7.78	7.67	7.67	7.61	7.55	7.55
225.0	7.90	7.84	7.78	7.67	7.61	7.61	7.55	7.49	7.49
270.0	7.96	7.84	7.78	7.72	7.67	7.67	7.61	7.61	7.55
315.0	7.78	7.72	7.67	7.61	7.61	7.55	7.55	7.55	7.49
360.0	7.78	7.72	7.67	7.61	7.61	7.55	7.55	7.49	7.49
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.49	7.43	7.43	7.43	7.37	7.37	7.37	7.37	7.32
45.0	7.49	7.49	7.43	7.43	7.43	7.37	7.37	7.37	7.32
90.0	7.49	7.49	7.43	7.43	7.43	7.43	7.37	7.37	7.37
135.0	7.55	7.49	7.49	7.49	7.43	7.43	7.43	7.37	7.37
180.0	7.49	7.49	7.49	7.43	7.37	7.37	7.37	7.37	7.37
225.0	7.49	7.49	7.49	7.43	7.37	7.37	7.37	7.32	7.32
270.0	7.55	7.49	7.49	7.49	7.43	7.43	7.43	7.37	7.37
315.0	7.49	7.43	7.43	7.43	7.37	7.37	7.32	7.32	7.32
360.0	7.49	7.43	7.43	7.43	7.37	7.37	7.37	7.37	7.32
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.32	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26
45.0	7.32	7.32	7.32	7.32	7.26	7.26	7.26	7.26	7.26
90.0	7.37	7.32	7.32	7.32	7.26	7.26	7.26	7.26	7.26
135.0	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.26	7.26
180.0	7.32	7.32	7.32	7.26	7.26	7.26	7.26	7.26	7.26
225.0	7.32	7.32	7.32	7.26	7.26	7.26	7.20	7.26	7.20
270.0	7.37	7.32	7.32	7.32	7.32	7.26	7.26	7.26	7.26
315.0	7.32	7.32	7.32	7.26	7.26	7.26	7.26	7.26	7.26
360.0	7.32	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26

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Appendix Page: 19 Total:19

Intensity data(cd)

C/γ(°)	90.0
0.0	7.26
45.0	7.26
90.0	7.26
135.0	7.26
180.0	7.26
225.0	7.26
270.0	7.26
315.0	7.26
360.0	7.26