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NT

Client:

LumCAT: 1634-M 铝反光罩

Luminaire: GH36D-B40 Hodel

Report No: 2024509-B004

Ballast type: AC

Test No: 2024509-C004

Voltage(V): 32.920

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.381

Lamp flux(lm): 2175.0

Power (W): 12.542

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2031.49, Efficiency(%): 93.40% , Luminous Efficacy(lm/W): 161.98

Central intensity(cd): 2478.779, Maximum intensity(cd): 2478.779

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=47.6

[C90/270]Total=47.6

Field angle(10%Imax): [C0/180]Total=92.6

[C90/270]Total=92.6

Maximum s/h(1/2): C0_180=0.74 C90_270=0.74

Maximum s/h(1/4): C0_180=0.80 C90_270=0.80

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.40%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.824%

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

NT 1634-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	2478.779	0.000	0	0.00%	0.00%
1.0	2476.804	2.371	2.371	0.11%	0.12%
2.0	2468.172	7.097	9.469	0.33%	0.47%
3.0	2455.224	11.775	21.244	0.54%	1.05%
4.0	2434.960	16.369	37.613	0.75%	1.85%
5.0	2409.649	20.841	58.454	0.96%	2.88%
6.0	2376.950	25.155	83.609	1.16%	4.12%
7.0	2341.983	29.290	112.899	1.35%	5.56%
8.0	2298.457	33.211	146.11	1.53%	7.19%
9.0	2250.761	36.869	182.979	1.70%	9.01%
10.0	2200.797	40.285	223.264	1.85%	10.99%
11.0	2150.248	43.476	266.74	2.00%	13.13%
12.0	2090.555	46.358	313.098	2.13%	15.41%
13.0	2030.497	48.906	362.004	2.25%	17.82%
14.0	1965.756	51.152	413.156	2.35%	20.34%
15.0	1899.553	53.065	466.221	2.44%	22.95%
16.0	1828.521	54.627	520.847	2.51%	25.64%
17.0	1762.098	55.916	576.763	2.57%	28.39%
18.0	1687.994	56.885	633.648	2.62%	31.19%
19.0	1613.012	57.431	691.078	2.64%	34.02%
20.0	1535.689	57.630	748.708	2.65%	36.86%
21.0	1461.365	57.550	806.258	2.65%	39.69%
22.0	1363.669	56.770	863.028	2.61%	42.48%
23.0	1304.708	55.990	919.018	2.57%	45.24%
24.0	1226.712	55.346	974.364	2.54%	47.96%
25.0	1178.760	54.695	1029.059	2.51%	50.66%
26.0	1123.961	54.356	1083.415	2.50%	53.33%
27.0	1069.367	53.660	1137.075	2.47%	55.97%
28.0	1020.727	52.917	1189.992	2.43%	58.58%
29.0	971.773	52.129	1242.121	2.40%	61.14%
30.0	927.655	51.284	1293.406	2.36%	63.67%
31.0	887.289	50.507	1343.913	2.32%	66.15%
32.0	850.171	49.776	1393.689	2.29%	68.60%
33.0	814.304	49.036	1442.725	2.25%	71.02%
34.0	779.520	48.234	1490.959	2.22%	73.39%
35.0	744.011	47.315	1538.274	2.18%	75.72%
36.0	707.588	46.219	1584.493	2.13%	78.00%
37.0	667.442	44.846	1629.339	2.06%	80.20%

NT 1634-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	626.425	43.188	1672.527	1.99%	82.33%
39.0	578.341	41.122	1713.649	1.89%	84.35%
40.0	532.928	38.757	1752.406	1.78%	86.26%
41.0	485.554	36.268	1788.673	1.67%	88.05%
42.0	436.278	33.492	1822.165	1.54%	89.70%
43.0	387.302	30.508	1852.673	1.40%	91.20%
44.0	341.859	27.521	1880.193	1.27%	92.55%
45.0	297.521	24.572	1904.766	1.13%	93.76%
46.0	263.300	21.933	1926.698	1.01%	94.84%
47.0	217.930	19.140	1945.838	0.88%	95.78%
48.0	178.713	16.034	1961.872	0.74%	96.57%
49.0	129.518	12.658	1974.53	0.58%	97.20%
50.0	92.795	9.269	1983.799	0.43%	97.65%
51.0	63.804	6.625	1990.424	0.30%	97.98%
52.0	43.073	4.586	1995.011	0.21%	98.20%
53.0	29.115	3.140	1998.151	0.14%	98.36%
54.0	20.995	2.209	2000.359	0.10%	98.47%
55.0	16.584	1.677	2002.037	0.08%	98.55%
56.0	14.002	1.382	2003.419	0.06%	98.62%
57.0	12.334	1.204	2004.623	0.06%	98.68%
58.0	11.002	1.079	2005.702	0.05%	98.73%
59.0	10.007	0.982	2006.684	0.05%	98.78%
60.0	9.261	0.910	2007.595	0.04%	98.82%
61.0	8.734	0.859	2008.453	0.04%	98.87%
62.0	8.391	0.825	2009.279	0.04%	98.91%
63.0	8.200	0.807	2010.085	0.04%	98.95%
64.0	8.083	0.799	2010.885	0.04%	98.99%
65.0	8.003	0.796	2011.681	0.04%	99.02%
66.0	7.901	0.793	2012.474	0.04%	99.06%
67.0	7.835	0.791	2013.265	0.04%	99.10%
68.0	7.783	0.791	2014.056	0.04%	99.14%
69.0	7.718	0.791	2014.847	0.04%	99.18%
70.0	7.666	0.790	2015.637	0.04%	99.22%
71.0	7.615	0.790	2016.427	0.04%	99.26%
72.0	7.593	0.791	2017.218	0.04%	99.30%
73.0	7.542	0.791	2018.01	0.04%	99.34%
74.0	7.506	0.791	2018.801	0.04%	99.38%
75.0	7.484	0.792	2019.593	0.04%	99.41%

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

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

Operator: NT07
Distance(m): 7.65

NT 1634-M 铝反光罩

Zonal flux distribution table

Appendix Page: 4 Total:19

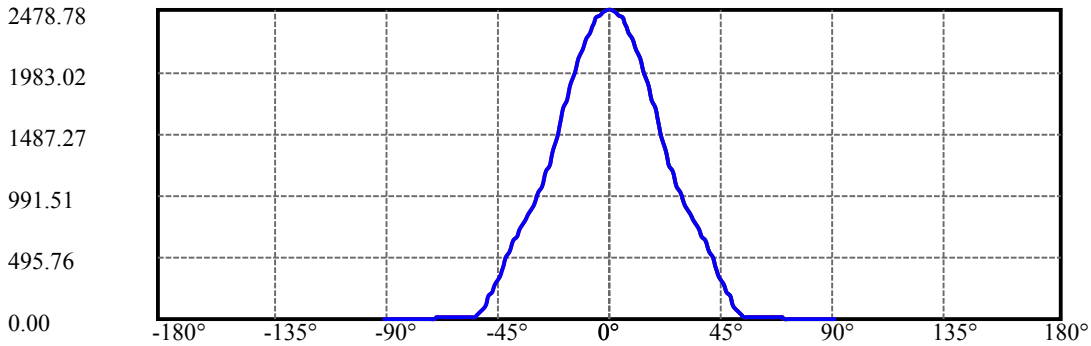
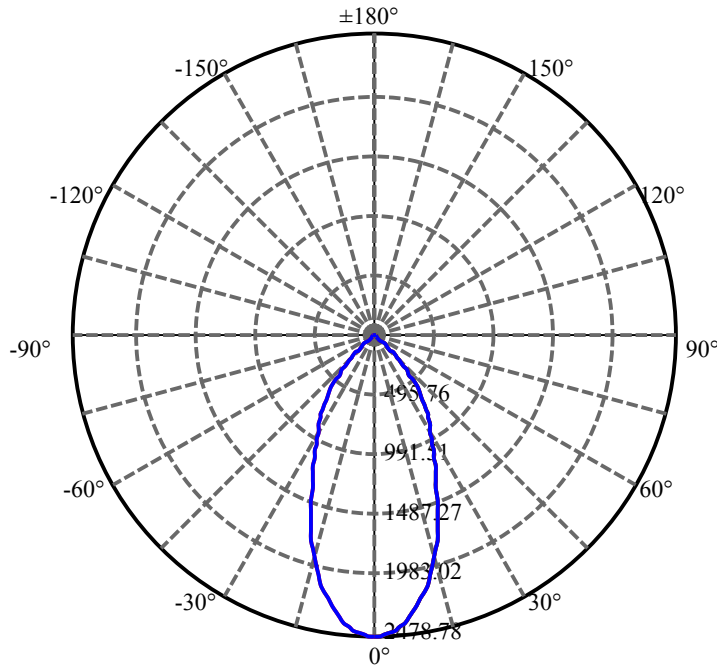
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.454	0.793	2020.386	0.04%	99.45%
77.0	7.425	0.793	2021.179	0.04%	99.49%
78.0	7.388	0.793	2021.972	0.04%	99.53%
79.0	7.381	0.794	2022.765	0.04%	99.57%
80.0	7.345	0.794	2023.559	0.04%	99.61%
81.0	7.330	0.794	2024.353	0.04%	99.65%
82.0	7.323	0.795	2025.147	0.04%	99.69%
83.0	7.301	0.795	2025.942	0.04%	99.73%
84.0	7.286	0.795	2026.737	0.04%	99.77%
85.0	7.249	0.793	2027.53	0.04%	99.80%
86.0	7.257	0.793	2028.323	0.04%	99.84%
87.0	7.249	0.794	2029.117	0.04%	99.88%
88.0	7.213	0.792	2029.909	0.04%	99.92%
89.0	7.228	0.792	2030.701	0.04%	99.96%
90.0	7.220	0.792	2031.493	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1293.41	59.47%	63.67%
0-40	1752.41	80.57%	86.26%
0-60	2007.59	92.30%	98.82%
0-90	2030.70	93.37%	99.96%
0-120	2030.70	93.37%	99.96%
0-180	2031.49	93.40%	100.00%
60-90	23.11	1.06%	1.14%
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%
0-36.91	1625.19	74.72%	80.00%

ZONAL LUMEN SUMMARY

0-10	223.26
10-20	525.44
20-30	544.70
30-40	459.00
40-50	231.39
50-60	23.80
60-70	8.04
70-80	7.92
80-90	7.14
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: ———

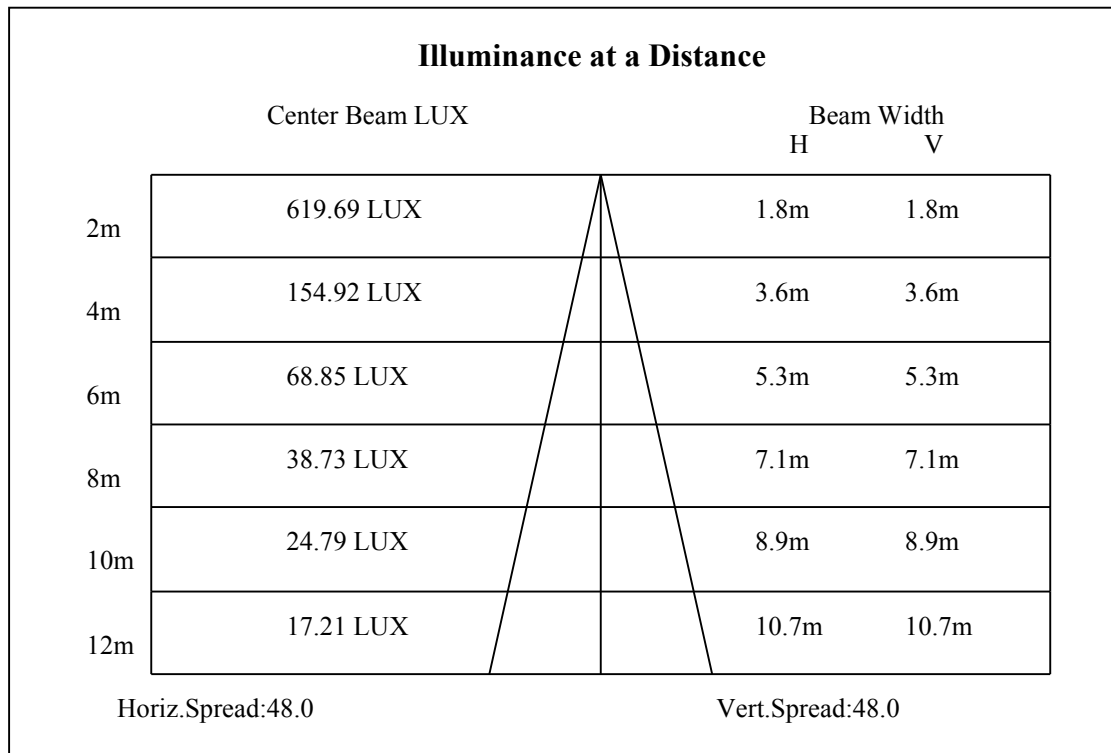
C90/C270: ———

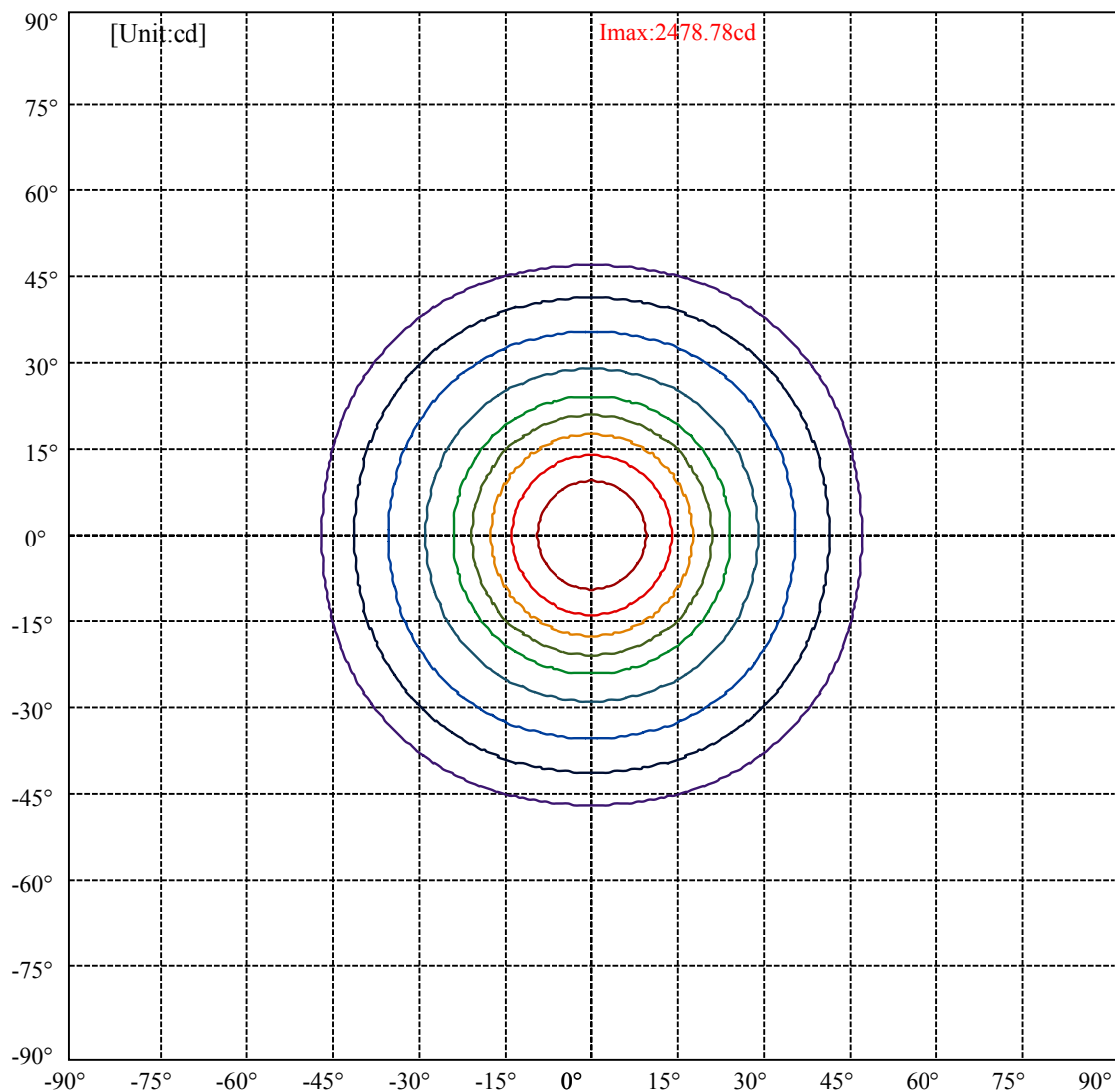
Field angle(10%Imax):C0/180Left:46.3 Right:46.3

:C90/270Left:46.3 Right:46.3

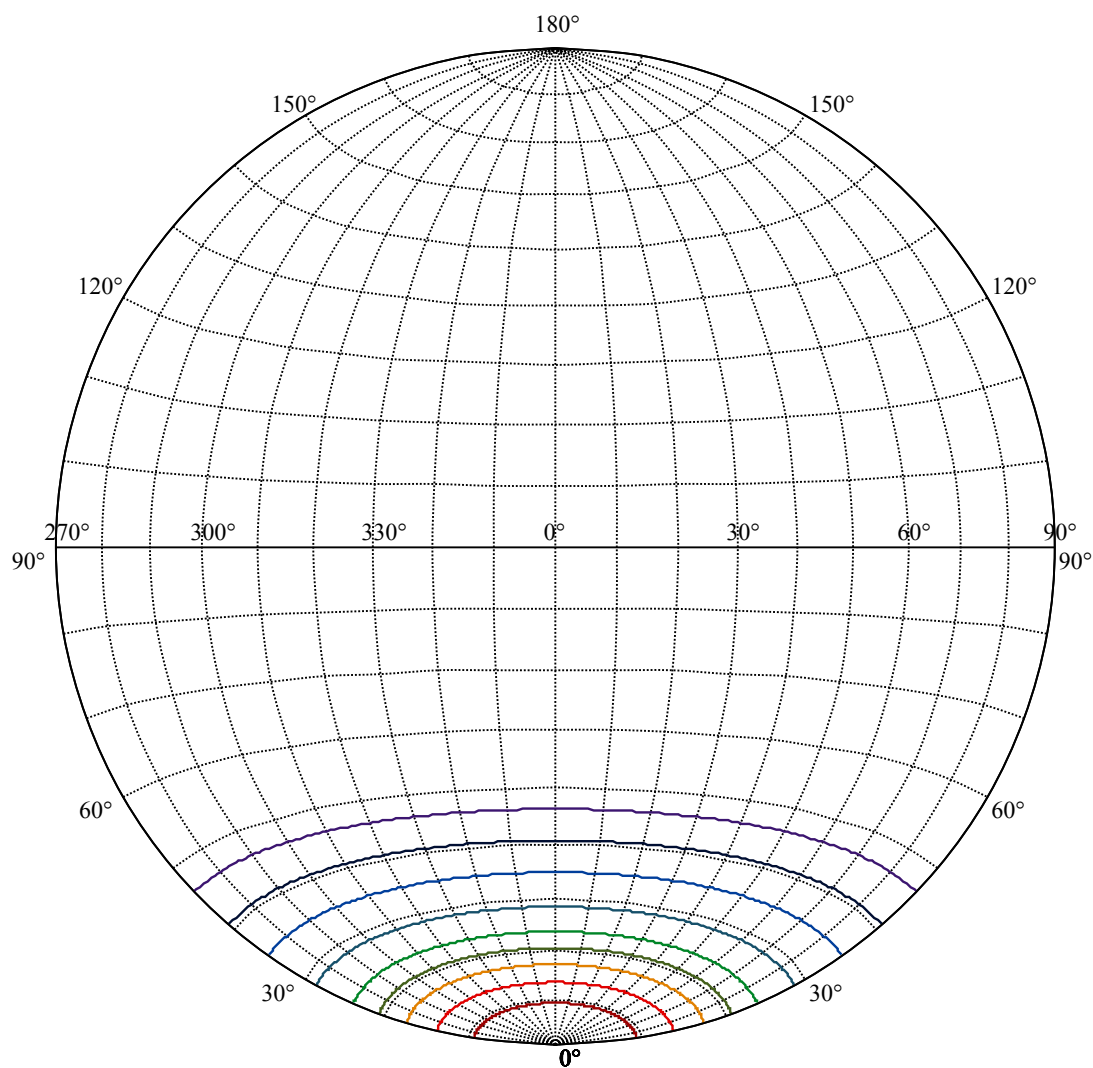
Beam Angle(50%Imax):C0/180Left:23.8 Right:23.8

:C90/270Left:23.8 Right:23.8





(10%Imax) 247.878	—
(20%Imax) 495.756	—
(30%Imax) 743.634	—
(40%Imax) 991.512	—
(50%Imax) 1239.39	—
(60%Imax) 1487.27	—
(70%Imax) 1735.15	—
(80%Imax) 1983.02	—
(90%Imax) 2230.9	—



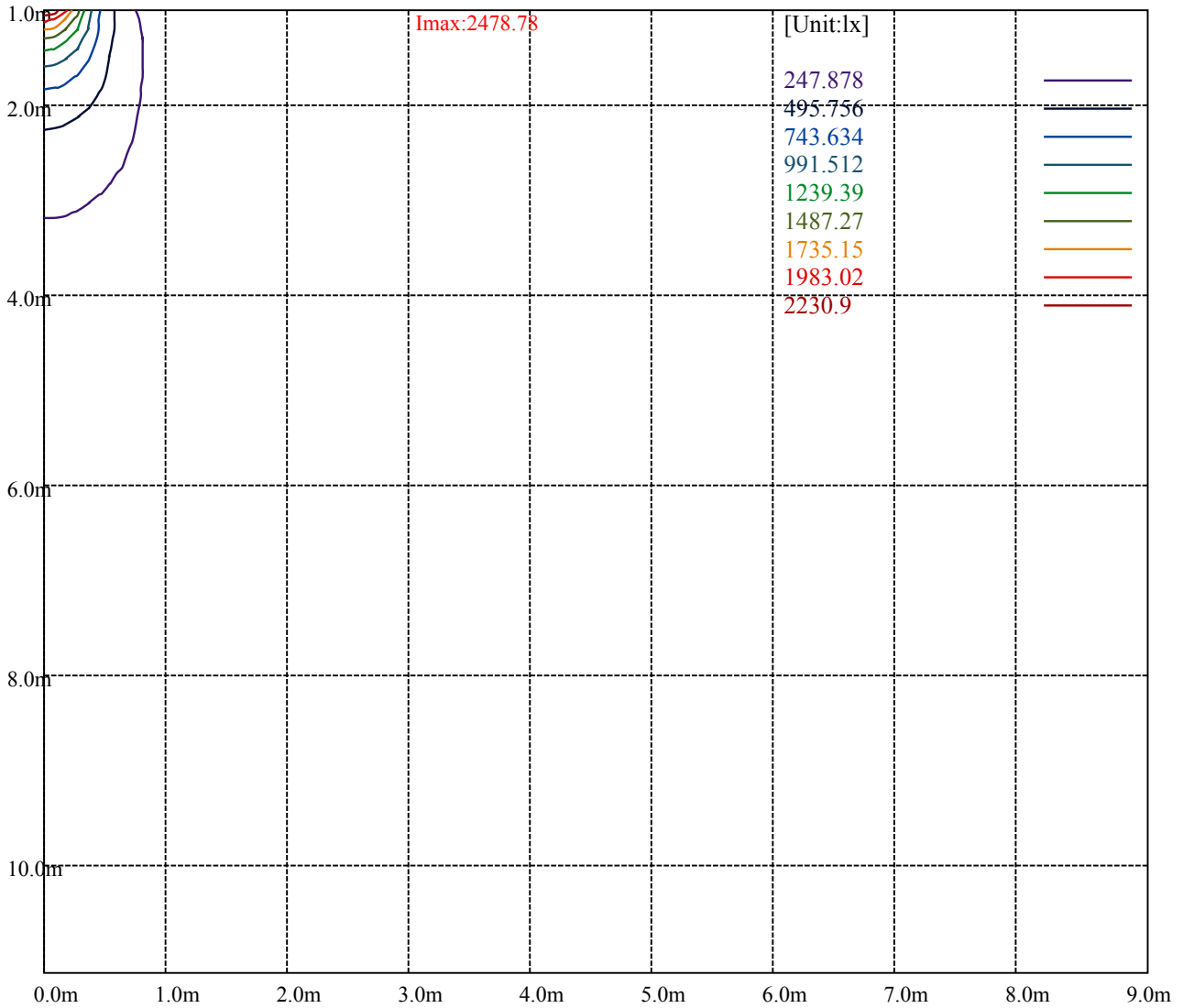
House

[Unit:cd]

Road

Imax:2478.78

(10%Imax) 247.878	—
(20%Imax) 495.756	—
(30%Imax) 743.634	—
(40%Imax) 991.512	—
(50%Imax) 1239.39	—
(60%Imax) 1487.27	—
(70%Imax) 1735.15	—
(80%Imax) 1983.02	—
(90%Imax) 2230.9	—



NT 1634-M 铝反光罩

Luminance Limiting Curve(no luminous side)

Luminance Table

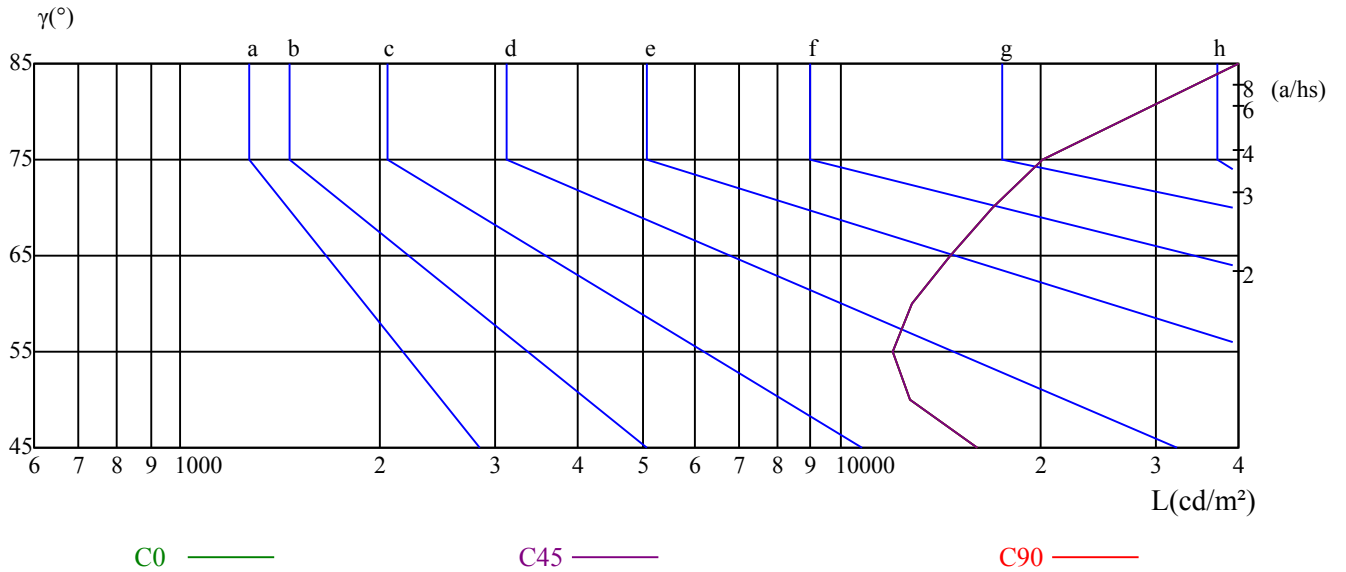
γ	45	50	55	60	65	70	75	80	85
C0	16110	12707	11994	12838	14615	16996	20243	28497	54367
C45	16110	12707	11994	12838	14615	16996	20243	28497	54367
C90	16110	12707	11994	12838	14615	16996	20243	28497	54367

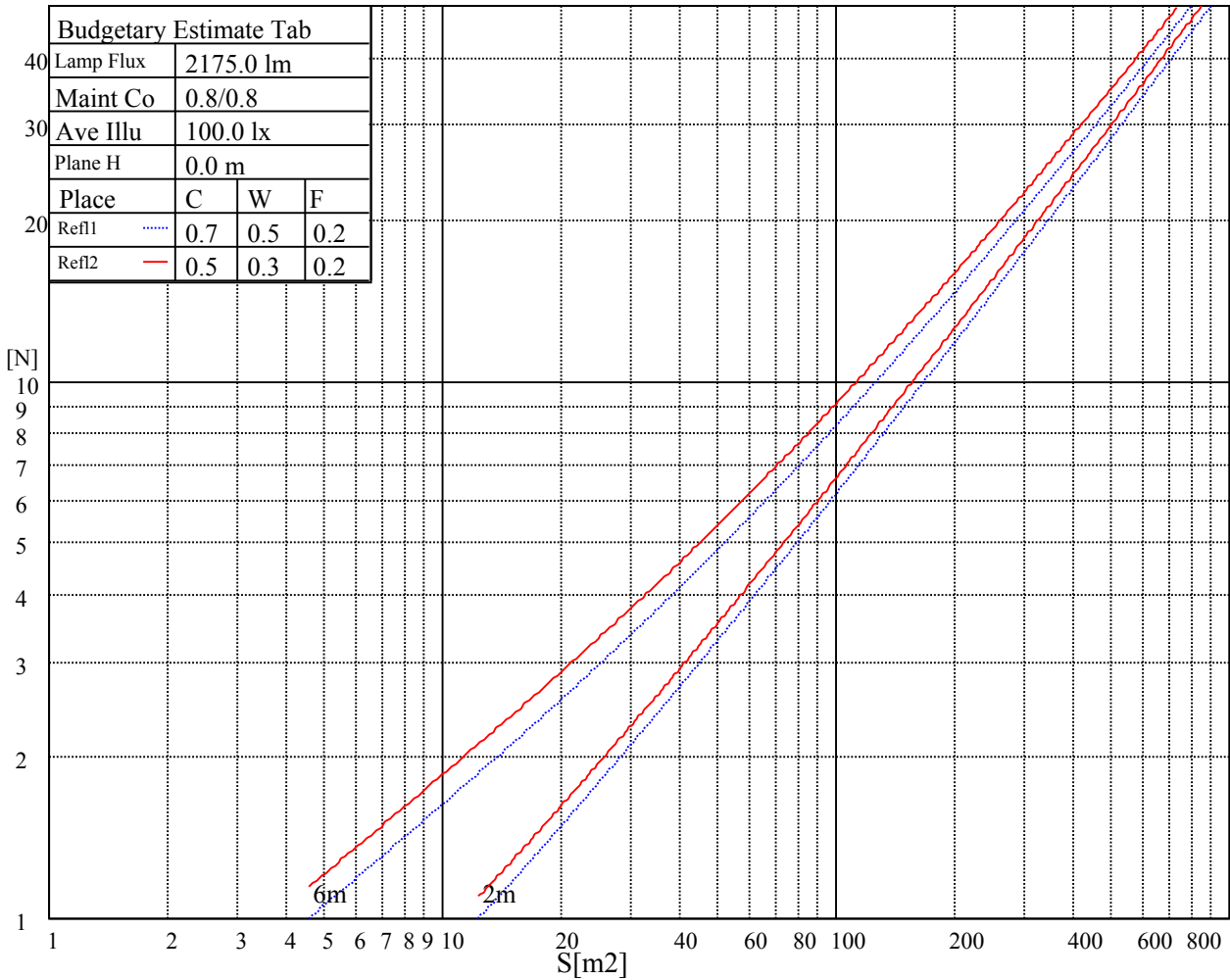
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14615	14615	14615	20243	20243	20243	54367	54367	54367

Glare Table

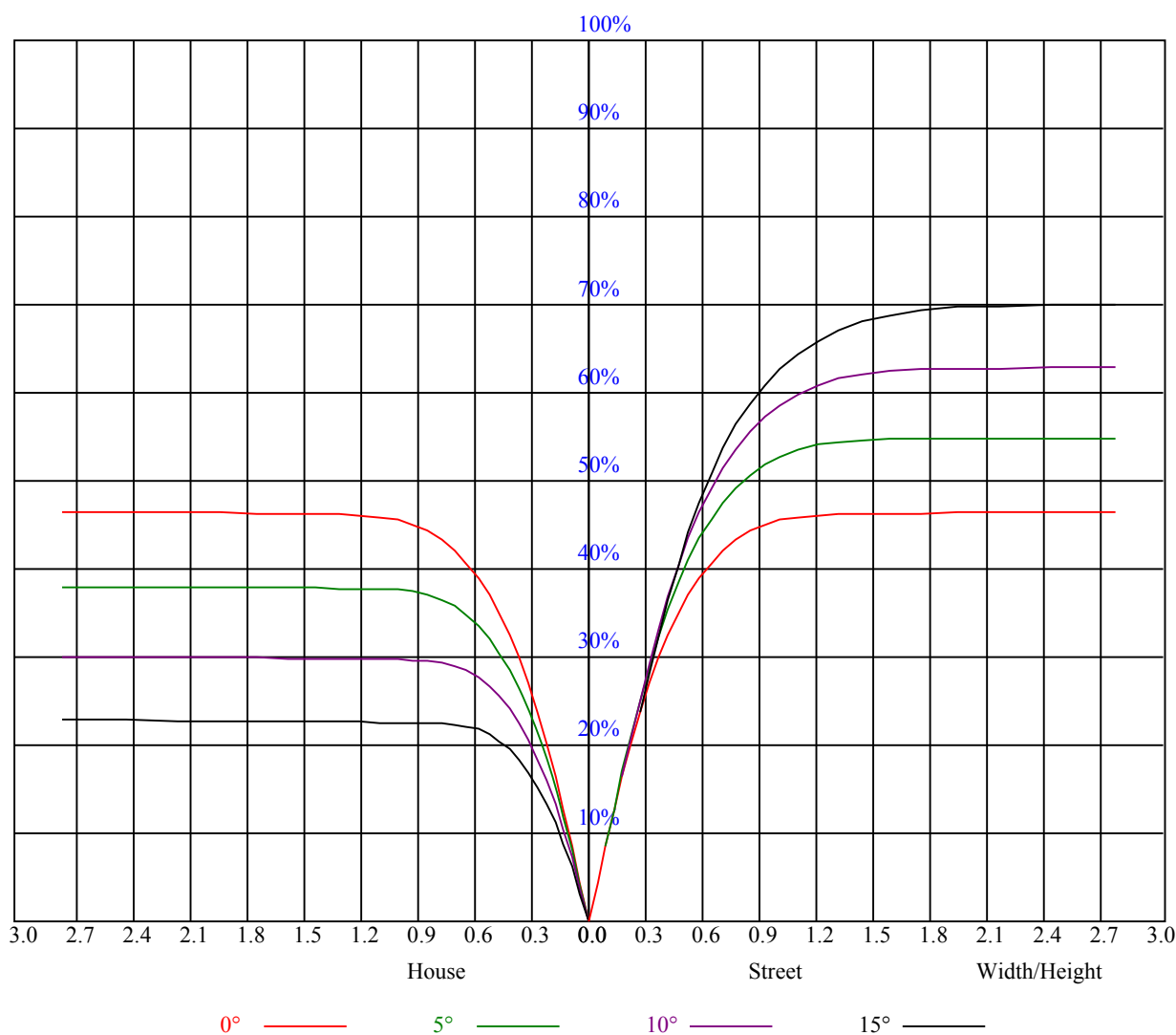
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

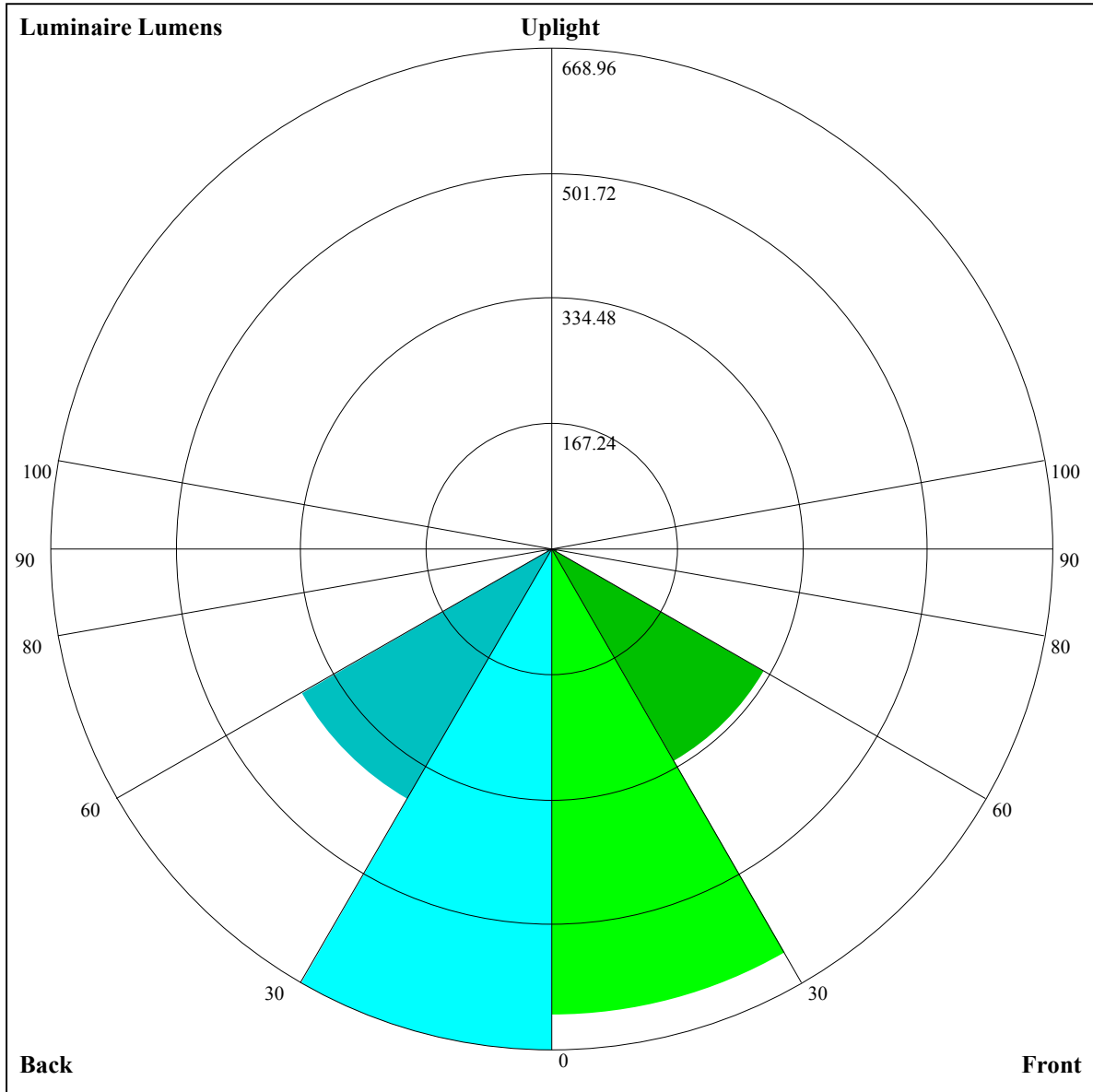
Luminance Limiting Curve





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 RHOF=20 CU															
0	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.00	0.98	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87
2	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.85	0.88	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.84	0.80	0.87	0.83	0.79	0.85	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.75	0.74
4	0.82	0.77	0.73	0.81	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.72	0.70	0.68
5	0.77	0.71	0.67	0.76	0.71	0.67	0.74	0.70	0.66	0.73	0.69	0.65	0.71	0.68	0.65	0.63
6	0.72	0.66	0.62	0.71	0.66	0.62	0.70	0.65	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.59
7	0.67	0.61	0.57	0.67	0.61	0.57	0.65	0.61	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.55
8	0.63	0.57	0.53	0.63	0.57	0.53	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.51
9	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.57	0.52	0.49	0.48
10	0.56	0.51	0.47	0.56	0.50	0.47	0.55	0.50	0.47	0.54	0.50	0.47	0.54	0.49	0.46	0.45





Luminaire Lumens:

FL=623.98,FM=328.48,FH=7.93,FVH=3.96

BL=668.96,BM=385.57,BH=8.06,BVH=3.97

UL=0,UH=0

BUG Rating:B2-U0-G0

NT 1634-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	2474.98	2459.76	2432.25	2407.09	2376.66	2340.37	2290.04	2244.40	2195.24
45.0	2482.58	2477.32	2465.61	2450.40	2422.30	2393.04	2362.61	2325.16	2274.24
90.0	2479.66	2477.32	2463.86	2449.81	2424.65	2398.31	2362.03	2326.91	2287.12
135.0	2477.90	2484.34	2486.68	2483.75	2470.88	2456.83	2437.52	2416.45	2379.00
180.0	2474.98	2486.09	2491.36	2490.78	2483.17	2467.95	2451.57	2428.16	2392.46
225.0	2482.58	2482.00	2480.83	2472.05	2455.66	2425.23	2401.82	2357.93	2318.13
270.0	2479.66	2480.24	2479.07	2465.61	2450.98	2429.91	2394.80	2363.20	2316.96
315.0	2477.90	2467.37	2445.71	2422.30	2395.38	2365.54	2315.21	2273.66	2224.50
360.0	2474.98	2459.76	2432.25	2407.09	2376.66	2340.37	2290.04	2244.40	2195.24
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2132.62	2078.78	2020.26	1961.15	1883.31	1818.35	1735.84	1665.02	1595.97
45.0	2227.42	2167.15	2116.23	2062.98	1990.41	1931.30	1867.51	1783.82	1717.69
90.0	2228.60	2180.61	2130.28	2060.64	2004.45	1928.37	1865.17	1797.87	1731.15
135.0	2343.88	2303.50	2258.44	2197.58	2144.91	2090.48	2019.08	1957.64	1892.68
180.0	2358.52	2319.31	2275.41	2212.79	2161.88	2107.45	2040.74	1981.05	1920.18
225.0	2275.41	2216.31	2169.49	2117.99	2062.39	1992.75	1933.64	1871.02	1805.48
270.0	2277.75	2230.35	2178.27	2115.06	2060.05	1999.77	1943.01	1862.83	1795.53
315.0	2161.88	2110.38	2053.61	1996.26	1936.57	1857.56	1791.43	1708.92	1638.10
360.0	2132.62	2078.78	2020.26	1961.15	1883.31	1818.35	1735.84	1665.02	1595.97
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1525.74	1438.54	1369.49	1302.77	1161.26	1161.26	1106.25	1055.69	997.81
45.0	1649.81	1579.00	1492.38	1423.91	1355.44	1286.97	1207.96	1151.78	1098.53
90.0	1646.30	1579.00	1505.84	1434.44	1347.25	1238.98	1155.12	1155.12	1086.24
135.0	1808.99	1743.44	1658.00	1587.19	1518.13	1447.32	1360.71	1294.58	1230.20
180.0	1855.22	1775.63	1703.65	1612.94	1542.13	1472.48	1404.01	1319.74	1255.37
225.0	1720.03	1649.22	1577.83	1487.70	1415.72	1332.62	1158.75	1158.75	1145.17
270.0	1729.40	1660.34	1568.46	1500.58	1412.79	1341.39	1278.19	1202.70	1145.93
315.0	1568.46	1478.92	1409.87	1341.39	1156.64	1156.64	1142.71	1091.74	1032.45
360.0	1525.74	1438.54	1369.49	1302.77	1161.26	1161.26	1106.25	1055.69	997.81
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	953.21	912.89	876.90	834.88	803.05	774.78	739.37	705.84	658.96
45.0	1033.57	989.09	945.20	897.79	862.09	830.49	799.48	764.36	733.93
90.0	1036.37	980.78	938.76	900.31	855.66	823.82	792.39	763.02	723.46
135.0	1172.26	1115.50	1052.88	1006.65	963.34	912.42	874.97	832.83	801.23
180.0	1196.84	1142.42	1077.46	1028.88	983.82	931.74	891.94	848.63	815.28
225.0	1080.27	1032.34	986.51	944.55	895.34	858.58	824.82	793.21	757.52
270.0	1095.01	1047.61	990.84	947.54	908.91	873.80	831.66	799.48	768.46
315.0	987.39	945.20	905.64	860.63	826.10	795.73	759.80	728.78	693.26
360.0	953.21	912.89	876.90	834.88	803.05	774.78	739.37	705.84	658.96
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	618.23	575.80	530.45	471.87	425.81	380.34	335.51	279.97	237.07
45.0	698.82	649.66	607.52	563.63	517.98	462.39	419.08	375.19	321.93
90.0	686.18	646.91	604.83	549.64	506.40	462.56	406.56	362.08	319.94
135.0	771.97	731.59	693.55	652.58	611.03	556.61	511.55	466.48	419.66
180.0	784.26	756.75	717.54	682.43	644.39	601.67	547.83	502.18	455.36
225.0	728.49	685.42	647.20	606.35	550.40	506.28	460.51	405.21	361.55
270.0	729.25	691.21	652.00	599.33	554.27	508.62	449.51	404.45	359.97
315.0	643.51	602.20	558.30	500.89	453.14	405.97	359.68	302.85	259.37
360.0	618.23	575.80	530.45	471.87	425.81	380.34	335.51	279.97	237.07

NT 1634-M 铝反光罩

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	195.99	156.78	111.78	80.70	49.86	32.07	22.82	19.08	16.15
45.0	300.86	300.86	186.75	148.53	112.83	73.74	48.46	30.02	22.06
90.0	267.21	226.01	185.52	140.57	107.04	75.85	50.50	28.09	21.54
135.0	363.48	318.42	296.18	296.18	174.87	135.83	93.05	63.32	40.20
180.0	409.13	351.78	307.30	296.18	242.28	166.56	120.32	86.85	58.82
225.0	319.06	278.27	228.06	188.33	150.93	115.70	76.78	50.56	31.13
270.0	306.72	296.18	296.18	180.42	135.13	102.24	72.39	47.23	25.93
315.0	217.70	178.08	131.68	98.79	63.20	40.38	26.10	19.43	17.09
360.0	195.99	156.78	111.78	80.70	49.86	32.07	22.82	19.08	16.15
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.99	11.24	10.36	9.36	8.72	8.37	8.25	8.13	8.08
45.0	18.90	15.86	12.76	11.47	10.30	9.31	8.95	8.43	8.25
90.0	19.08	16.21	12.58	11.41	10.48	9.25	8.66	8.43	8.31
135.0	24.46	20.37	18.38	16.15	13.34	11.94	10.59	9.42	9.07
180.0	37.63	22.24	19.20	17.09	14.98	12.99	11.53	9.95	8.66
225.0	20.78	18.26	14.28	11.76	10.71	9.77	8.60	8.37	8.25
270.0	20.07	17.21	14.10	11.94	10.83	10.01	9.19	8.95	8.43
315.0	14.05	11.29	10.36	9.48	8.66	8.43	8.31	8.19	8.08
360.0	12.99	11.24	10.36	9.36	8.72	8.37	8.25	8.13	8.08
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.96	7.90	7.84	7.78	7.72	7.67	7.67	7.61	7.55
45.0	8.19	8.08	8.02	7.90	7.84	7.78	7.72	7.67	7.61
90.0	8.19	8.08	8.02	7.90	7.84	7.78	7.72	7.67	7.67
135.0	8.54	8.31	8.19	8.08	7.96	7.90	7.78	7.72	7.67
180.0	8.37	8.25	8.13	8.02	7.90	7.90	7.78	7.72	7.67
225.0	8.13	8.02	7.96	7.84	7.78	7.72	7.67	7.61	7.61
270.0	8.19	8.08	8.02	7.90	7.90	7.84	7.72	7.72	7.61
315.0	8.02	7.96	7.84	7.78	7.72	7.67	7.67	7.61	7.55
360.0	7.96	7.90	7.84	7.78	7.72	7.67	7.67	7.61	7.55
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	7.32	7.32	7.32
45.0	7.61	7.55	7.49	7.49	7.43	7.43	7.37	7.37	7.32
90.0	7.61	7.55	7.49	7.49	7.49	7.43	7.43	7.37	7.37
135.0	7.67	7.61	7.55	7.55	7.49	7.49	7.43	7.43	7.43
180.0	7.67	7.61	7.55	7.49	7.49	7.43	7.37	7.37	7.32
225.0	7.55	7.49	7.49	7.43	7.43	7.43	7.37	7.37	7.32
270.0	7.61	7.55	7.55	7.49	7.49	7.43	7.43	7.43	7.37
315.0	7.55	7.55	7.49	7.49	7.43	7.37	7.37	7.37	7.32
360.0	7.49	7.43	7.43	7.43	7.37	7.37	7.32	7.32	7.32
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.26	7.26	7.26	7.26	7.20	7.20	7.20	7.20	7.20
45.0	7.32	7.32	7.32	7.26	7.26	7.26	7.26	7.20	7.26
90.0	7.37	7.37	7.32	7.32	7.26	7.26	7.26	7.20	7.20
135.0	7.37	7.37	7.32	7.32	7.26	7.32	7.26	7.26	7.26
180.0	7.32	7.32	7.32	7.32	7.26	7.26	7.26	7.20	7.26
225.0	7.32	7.32	7.32	7.26	7.26	7.26	7.26	7.26	7.20
270.0	7.37	7.32	7.32	7.32	7.26	7.26	7.26	7.20	7.20
315.0	7.32	7.32	7.26	7.26	7.26	7.26	7.26	7.20	7.26
360.0	7.26	7.26	7.26	7.26	7.20	7.20	7.20	7.20	7.20

NT 1634-M 铝反光罩

Intensity data(cd)

Appendix Page: 19 Total:19

C/γ(°)	90.0
0.0	7.20
45.0	7.20
90.0	7.26
135.0	7.26
180.0	7.20
225.0	7.20
270.0	7.26
315.0	7.20
360.0	7.20