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NT

Client:

LumCAT: 1635-M 铝反光罩

Luminaire: GH36D-B40 Hodel

Report No: 2024509-B005

Ballast type: AC

Test No: 2024509-C005

Voltage(V): 32.910

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.381

Lamp flux(lm): 2175.0

Power (W): 12.538

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2020.93, Efficiency(%): 92.92% , Luminous Efficacy(lm/W): 161.18

Central intensity(cd): 1571.973, Maximum intensity(cd): 1572.558

Angle of maximum intensity: C=0.0 γ =1.0

Beam Angle(50%Imax): [C0/180]Total=74.2

[C90/270]Total=74.2

Field angle(10%Imax): [C0/180]Total=97.8

[C90/270]Total=97.8

Maximum s/h(1/2): C0_180=1.08 C90_270=1.08

Maximum s/h(1/4): C0_180=1.07 C90_270=1.07

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.92%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.676%

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

NT 1635-M 铝反光罩

Zonal flux distribution table

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1571.973	0.000	0	0.00%	0.00%
1.0	1572.558	1.505	1.505	0.07%	0.07%
2.0	1572.265	4.514	6.018	0.21%	0.30%
3.0	1571.973	7.520	13.538	0.35%	0.67%
4.0	1571.827	10.523	24.062	0.48%	1.19%
5.0	1569.559	13.514	37.576	0.62%	1.86%
6.0	1567.437	16.486	54.061	0.76%	2.68%
7.0	1563.853	19.436	73.497	0.89%	3.64%
8.0	1558.878	22.349	95.846	1.03%	4.74%
9.0	1552.734	25.218	121.064	1.16%	5.99%
10.0	1544.248	28.027	149.091	1.29%	7.38%
11.0	1535.982	30.778	179.868	1.42%	8.90%
12.0	1524.570	33.456	213.325	1.54%	10.56%
13.0	1513.450	36.054	249.378	1.66%	12.34%
14.0	1500.356	38.576	287.955	1.77%	14.25%
15.0	1485.213	40.987	328.942	1.88%	16.28%
16.0	1467.437	43.265	372.207	1.99%	18.42%
17.0	1449.368	45.422	417.629	2.09%	20.67%
18.0	1430.275	47.479	465.108	2.18%	23.01%
19.0	1408.915	49.396	514.504	2.27%	25.46%
20.0	1385.506	51.146	565.65	2.35%	27.99%
21.0	1363.194	52.781	618.43	2.43%	30.60%
22.0	1339.200	54.306	672.736	2.50%	33.29%
23.0	1313.889	55.669	728.405	2.56%	36.04%
24.0	1286.237	56.848	785.253	2.61%	38.86%
25.0	1249.360	57.654	842.907	2.65%	41.71%
26.0	1205.885	57.956	900.863	2.66%	44.58%
27.0	1189.433	58.602	959.465	2.69%	47.48%
28.0	1159.967	59.482	1018.947	2.73%	50.42%
29.0	1127.253	59.840	1078.787	2.75%	53.38%
30.0	1092.608	59.936	1138.723	2.76%	56.35%
31.0	1056.119	59.796	1198.519	2.75%	59.31%
32.0	1020.998	59.507	1258.026	2.74%	62.25%
33.0	982.410	59.021	1317.047	2.71%	65.17%
34.0	942.066	58.240	1375.288	2.68%	68.05%
35.0	894.253	57.029	1432.317	2.62%	70.87%
36.0	844.699	55.369	1487.686	2.55%	73.61%
37.0	790.646	53.336	1541.021	2.45%	76.25%

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Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	736.484	50.974	1591.995	2.34%	78.78%
39.0	679.088	48.317	1640.312	2.22%	81.17%
40.0	624.508	45.465	1685.777	2.09%	83.42%
41.0	564.764	42.349	1728.126	1.95%	85.51%
42.0	511.926	39.118	1767.244	1.80%	87.45%
43.0	452.306	35.718	1802.962	1.64%	89.21%
44.0	398.619	32.116	1835.079	1.48%	90.80%
45.0	342.225	28.471	1863.55	1.31%	92.21%
46.0	292.027	24.804	1888.354	1.14%	93.44%
47.0	253.278	21.688	1910.043	1.00%	94.51%
48.0	223.732	19.283	1929.326	0.89%	95.47%
49.0	149.474	15.326	1944.652	0.70%	96.23%
50.0	114.368	11.000	1955.652	0.51%	96.77%
51.0	85.070	8.438	1964.09	0.39%	97.19%
52.0	62.305	6.324	1970.414	0.29%	97.50%
53.0	49.525	4.865	1975.278	0.22%	97.74%
54.0	41.507	4.012	1979.291	0.18%	97.94%
55.0	35.545	3.439	1982.73	0.16%	98.11%
56.0	30.037	2.963	1985.694	0.14%	98.26%
57.0	25.838	2.555	1988.248	0.12%	98.38%
58.0	22.356	2.229	1990.477	0.10%	98.49%
59.0	19.554	1.959	1992.436	0.09%	98.59%
60.0	17.169	1.735	1994.171	0.08%	98.68%
61.0	15.399	1.554	1995.725	0.07%	98.75%
62.0	13.936	1.414	1997.139	0.06%	98.82%
63.0	12.751	1.298	1998.437	0.06%	98.89%
64.0	11.668	1.198	1999.635	0.06%	98.95%
65.0	10.812	1.113	2000.748	0.05%	99.00%
66.0	10.095	1.043	2001.791	0.05%	99.05%
67.0	9.546	0.988	2002.778	0.05%	99.10%
68.0	9.064	0.943	2003.721	0.04%	99.15%
69.0	8.683	0.905	2004.626	0.04%	99.19%
70.0	8.354	0.875	2005.501	0.04%	99.24%
71.0	8.105	0.851	2006.352	0.04%	99.28%
72.0	7.901	0.832	2007.184	0.04%	99.32%
73.0	7.710	0.816	2008.001	0.04%	99.36%
74.0	7.535	0.801	2008.802	0.04%	99.40%
75.0	7.425	0.790	2009.593	0.04%	99.44%

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Zonal flux distribution table

Appendix Page: 4 Total:19

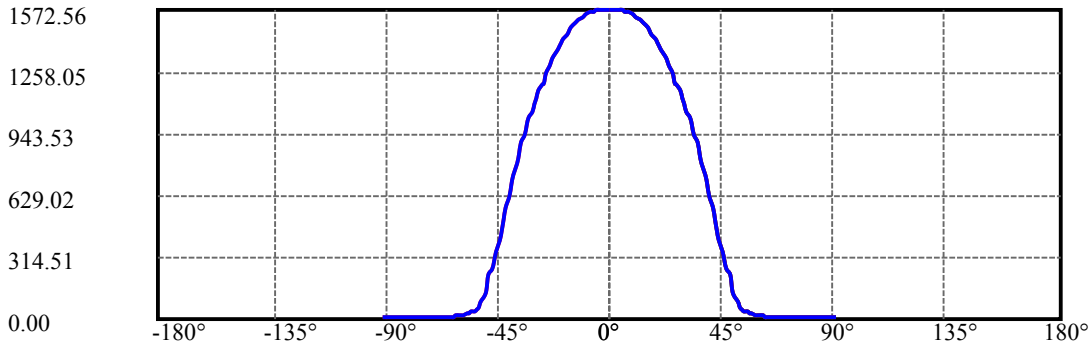
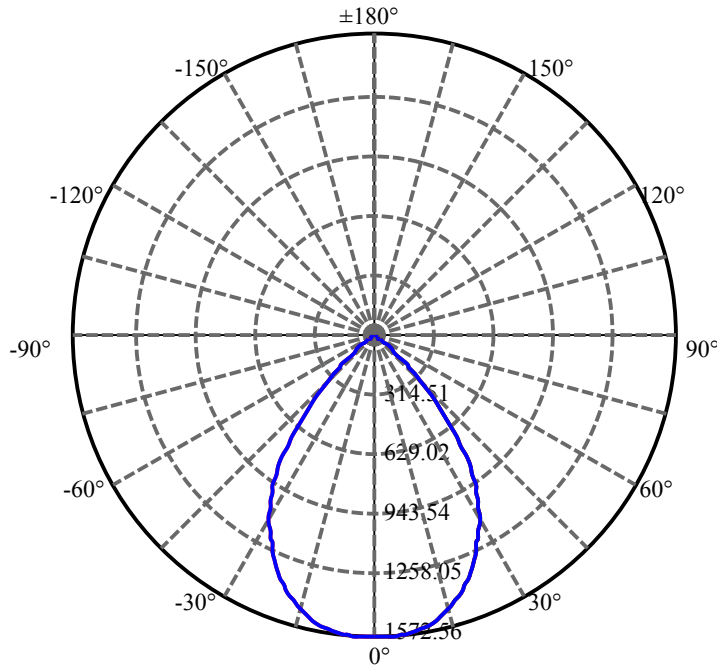
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.308	0.782	2010.375	0.04%	99.48%
77.0	7.176	0.772	2011.147	0.04%	99.52%
78.0	7.110	0.765	2011.912	0.04%	99.55%
79.0	7.037	0.760	2012.672	0.03%	99.59%
80.0	6.986	0.756	2013.428	0.03%	99.63%
81.0	6.928	0.752	2014.18	0.03%	99.67%
82.0	6.913	0.751	2014.931	0.03%	99.70%
83.0	6.876	0.750	2015.681	0.03%	99.74%
84.0	6.884	0.750	2016.43	0.03%	99.78%
85.0	6.854	0.750	2017.18	0.03%	99.81%
86.0	6.854	0.749	2017.929	0.03%	99.85%
87.0	6.847	0.750	2018.679	0.03%	99.89%
88.0	6.833	0.749	2019.429	0.03%	99.93%
89.0	6.840	0.749	2020.178	0.03%	99.96%
90.0	6.847	0.750	2020.928	0.03%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1138.72	52.36%	56.35%
0-40	1685.78	77.51%	83.42%
0-60	1994.17	91.69%	98.68%
0-90	2020.18	92.88%	99.96%
0-120	2020.18	92.88%	99.96%
0-180	2020.93	92.92%	100.00%
60-90	26.01	1.20%	1.29%
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%
0-38.51	1616.74	74.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	149.09
10-20	416.56
20-30	573.07
30-40	547.05
40-50	269.88
50-60	38.52
60-70	11.33
70-80	7.93
80-90	6.75
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: —————

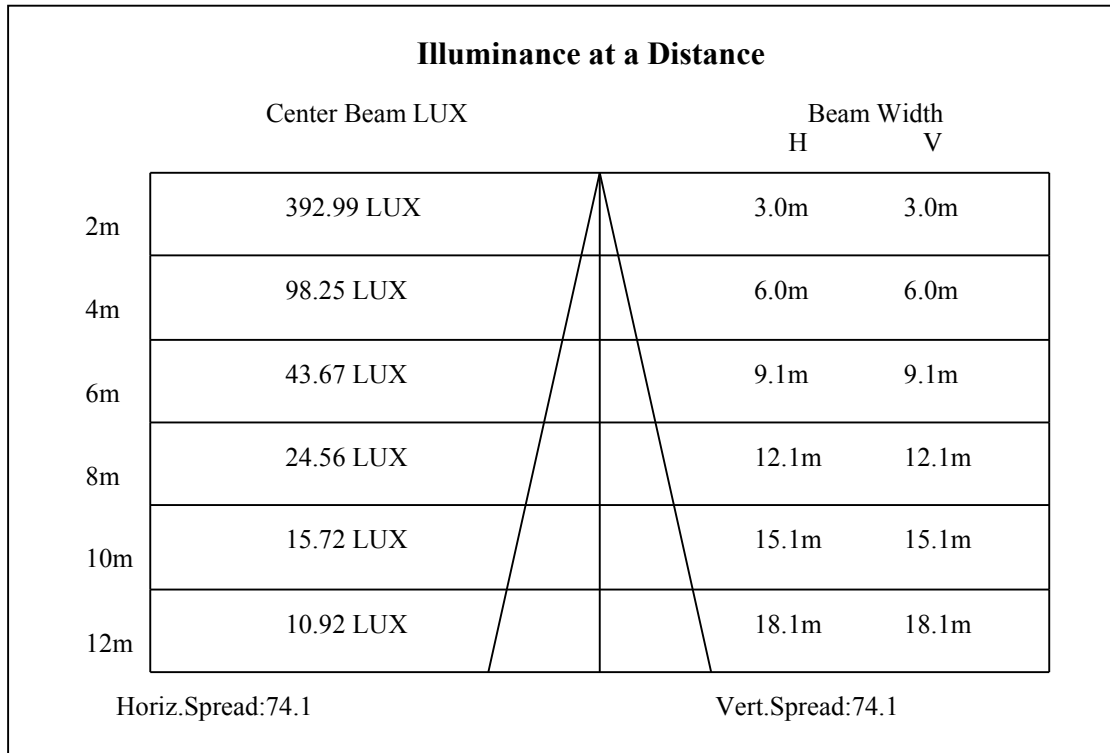
C90/C270: —————

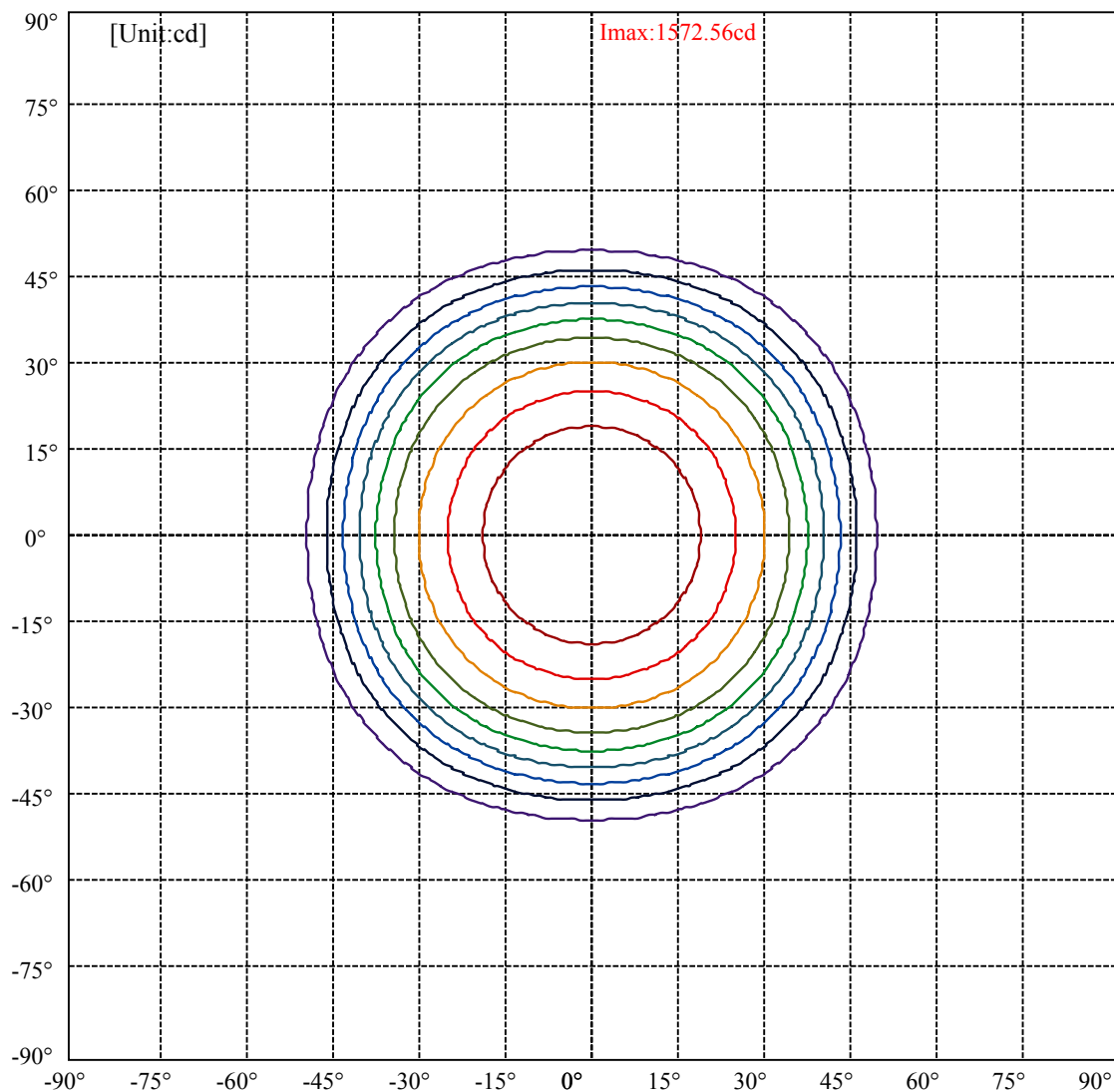
Field angle(10%Imax):C0/180Left:49.9 Right:47.9

:C90/270Left:49.9 Right:47.9

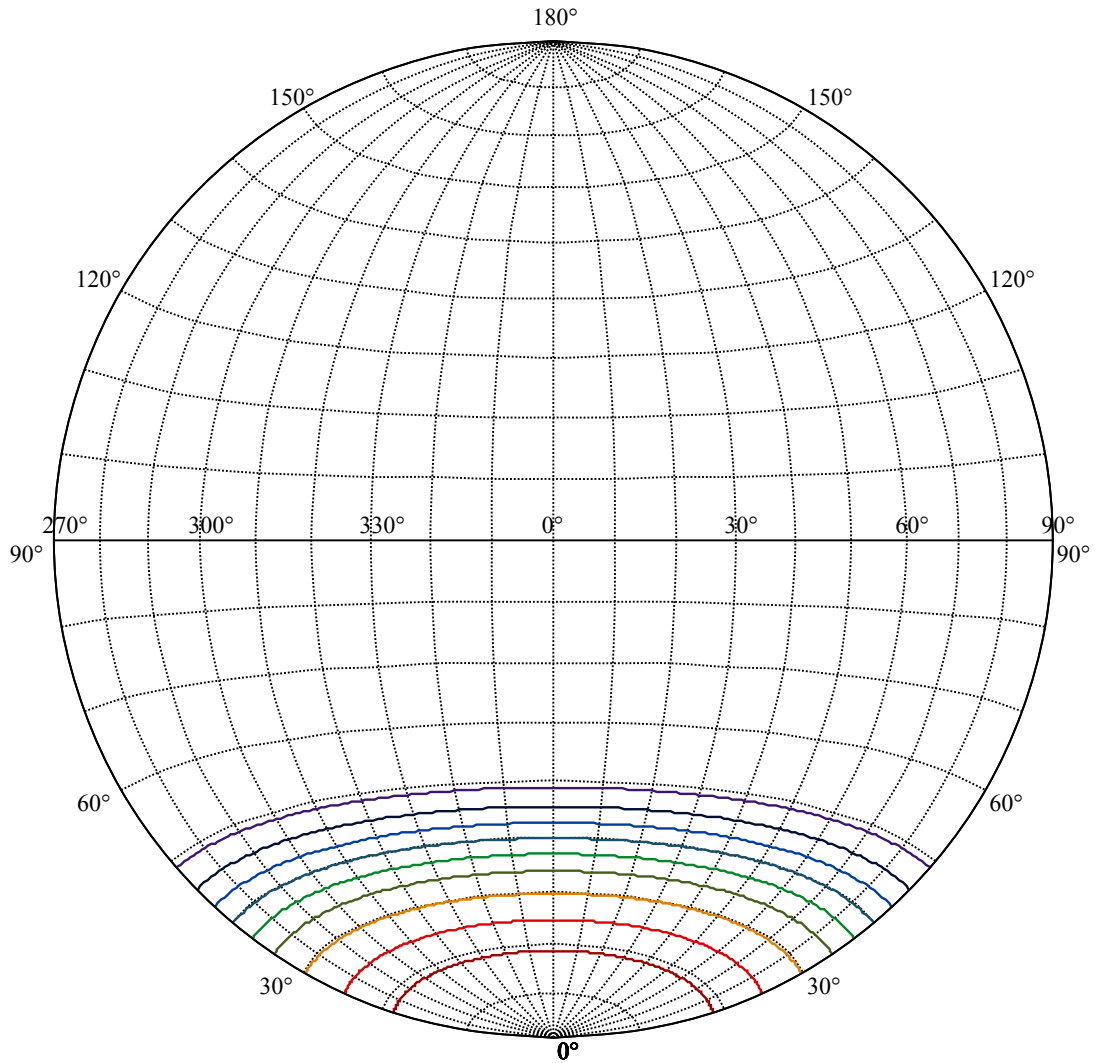
Beam Angle(50%Imax):C0/180Left:38.1 Right:36.1

:C90/270Left:38.1 Right:36.1





(10%Imax) 157.256	—
(20%Imax) 314.512	—
(30%Imax) 471.768	—
(40%Imax) 629.023	—
(50%Imax) 786.279	—
(60%Imax) 943.535	—
(70%Imax) 1100.79	—
(80%Imax) 1258.05	—
(90%Imax) 1415.3	—



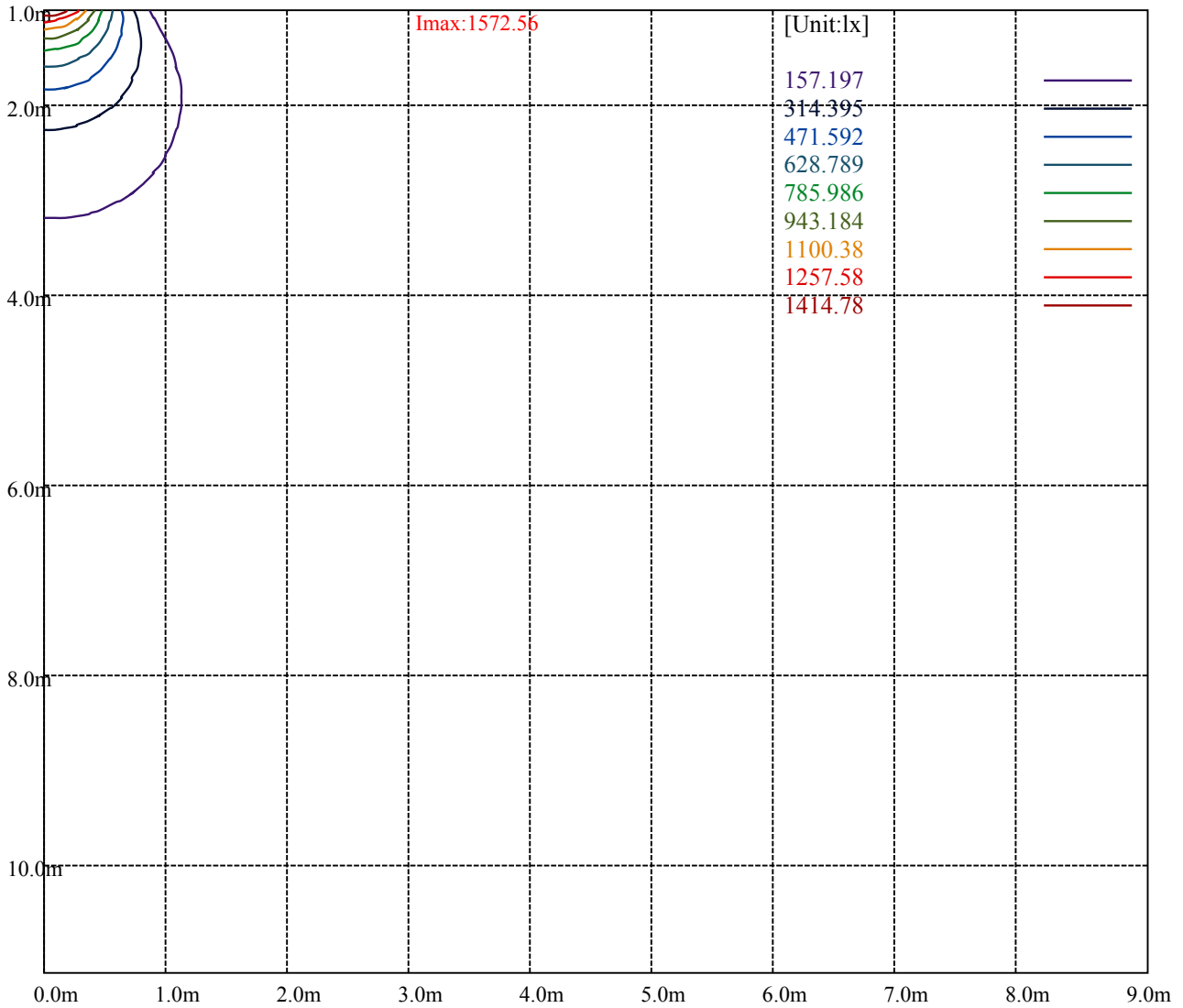
House

[Unit:cd]

Road

I_{max}:1572.56

(10%I _{max})	157.256	—
(20%I _{max})	314.512	—
(30%I _{max})	471.768	—
(40%I _{max})	629.023	—
(50%I _{max})	786.279	—
(60%I _{max})	943.535	—
(70%I _{max})	1100.79	—
(80%I _{max})	1258.05	—
(90%I _{max})	1415.3	—



NT 1635-M 铝反光罩

Luminance Limiting Curve(no luminous side)

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Luminance Table

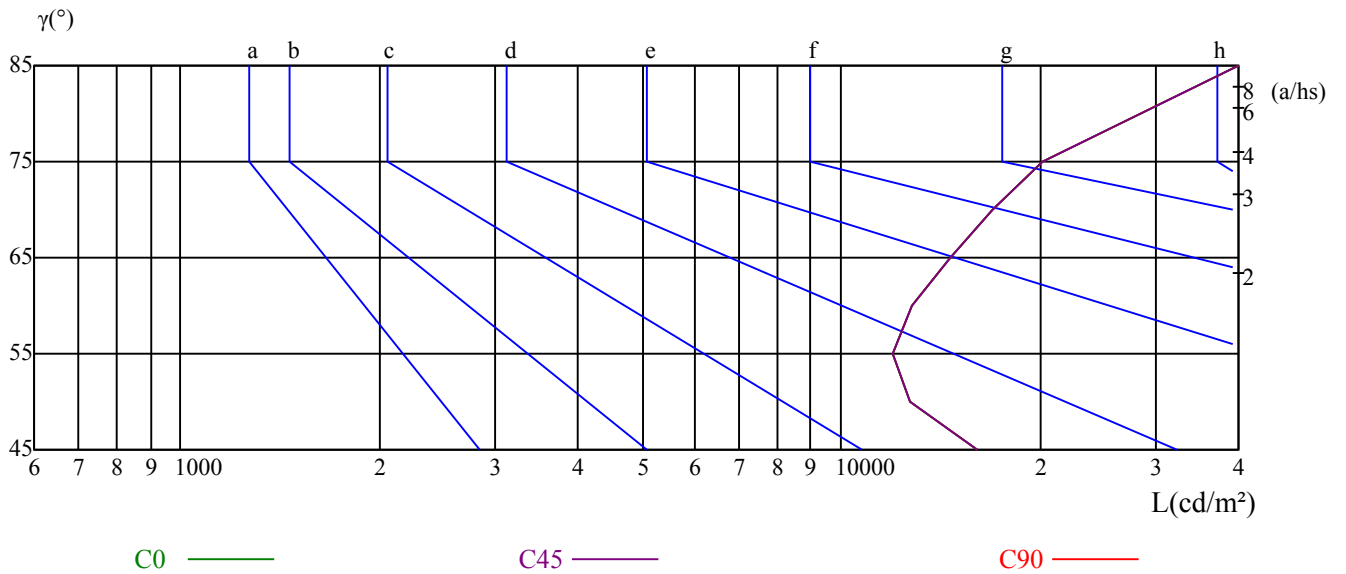
γ	45	50	55	60	65	70	75	80	85
C0	16110	12707	11994	12838	14615	16996	20243	28497	54367
C45	16110	12707	11994	12838	14615	16996	20243	28497	54367
C90	16110	12707	11994	12838	14615	16996	20243	28497	54367

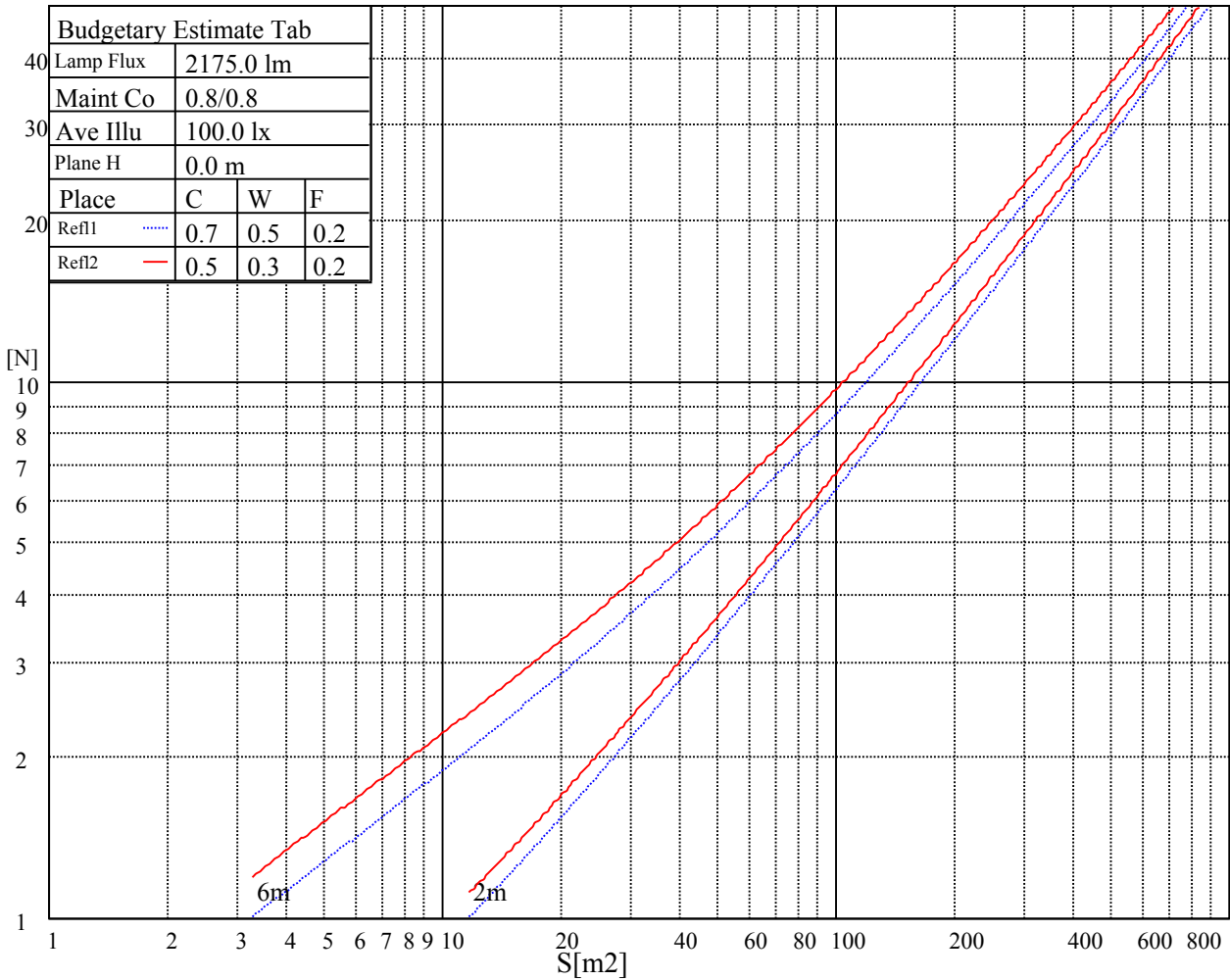
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14615	14615	14615	20243	20243	20243	54367	54367	54367

Glare Table

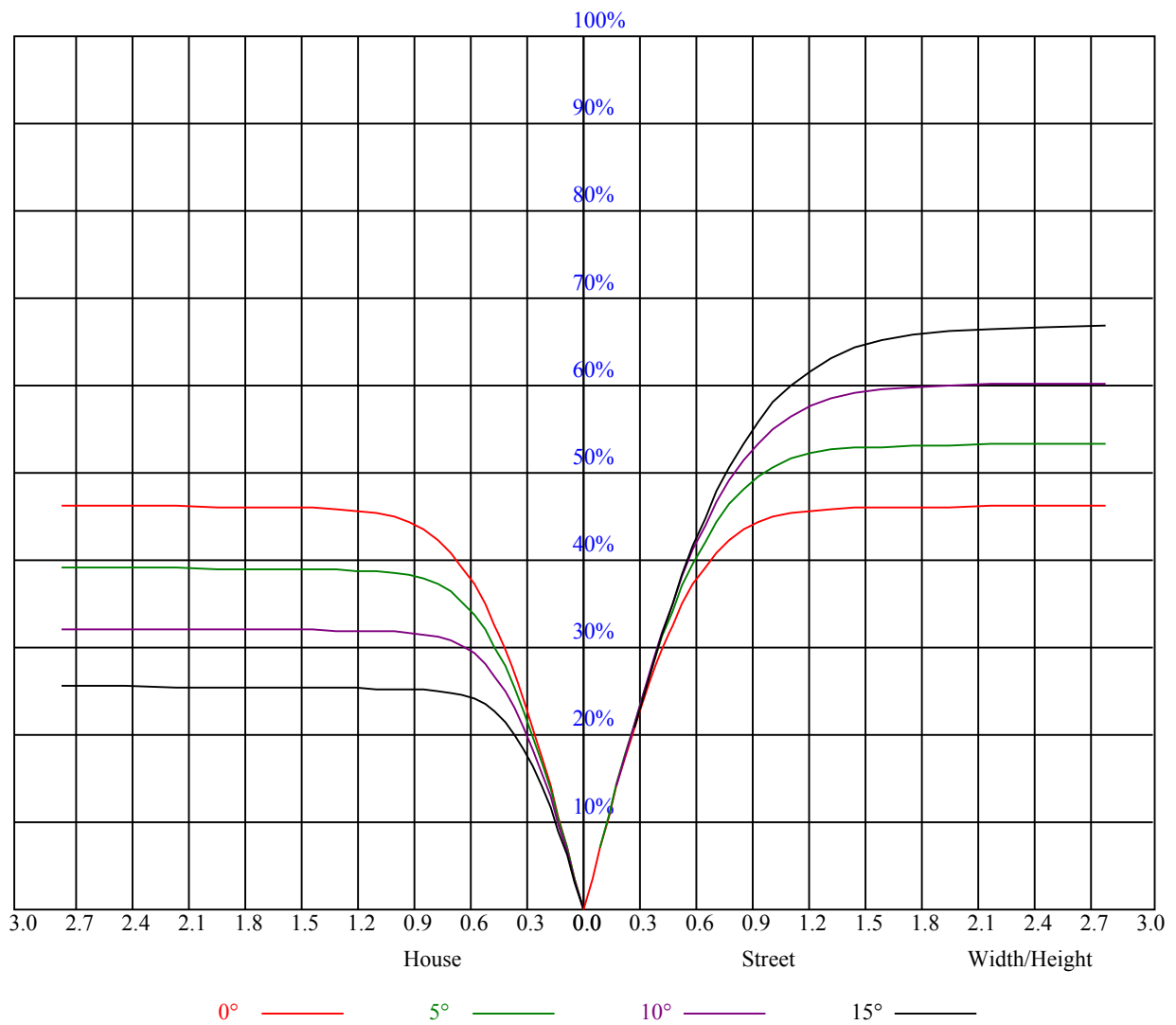
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

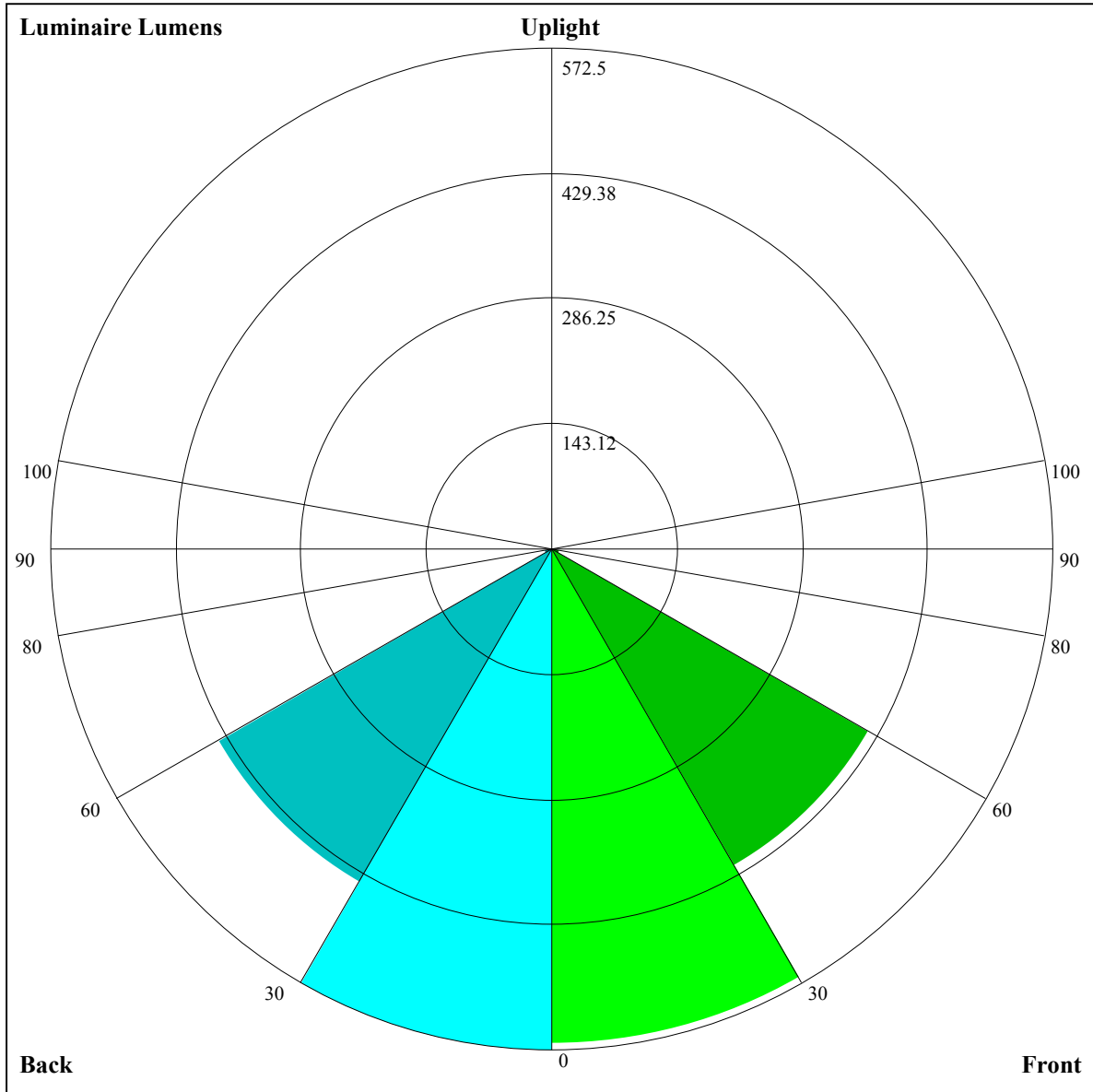
Luminance Limiting Curve





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	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.02	0.99	0.97	1.00	0.98	0.96	0.96	0.94	0.93	0.93	0.91	0.90	0.89	0.88	0.87	0.85
2	0.94	0.90	0.86	0.92	0.88	0.85	0.89	0.86	0.83	0.86	0.84	0.81	0.84	0.82	0.80	0.78
3	0.87	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.71
4	0.80	0.74	0.70	0.79	0.73	0.69	0.77	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.67	0.65
5	0.74	0.68	0.63	0.73	0.67	0.63	0.71	0.66	0.63	0.70	0.65	0.62	0.68	0.64	0.61	0.60
6	0.69	0.62	0.58	0.68	0.62	0.58	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.55
7	0.64	0.58	0.53	0.63	0.57	0.53	0.62	0.57	0.53	0.61	0.56	0.52	0.60	0.55	0.52	0.51
8	0.59	0.53	0.49	0.59	0.53	0.49	0.58	0.52	0.49	0.57	0.52	0.48	0.56	0.52	0.48	0.47
9	0.56	0.49	0.45	0.55	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.43
10	0.52	0.46	0.42	0.52	0.46	0.42	0.51	0.46	0.42	0.50	0.45	0.42	0.49	0.45	0.42	0.40





Luminaire Lumens:

FL=565.51,FM=417.29,FH=9.95,FVH=3.75

BL=572.5,BM=440.3,BH=9.55,BVH=3.75

UL=0,UH=0

BUG Rating:B2-U0-G0

NT 1635-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	1574.90	1575.48	1577.24	1574.90	1576.65	1573.14	1571.97	1567.29	1560.85
45.0	1568.46	1573.14	1574.31	1576.65	1578.41	1575.48	1578.41	1574.31	1569.63
90.0	1573.14	1575.48	1577.83	1579.00	1579.00	1579.58	1577.83	1574.31	1570.80
135.0	1571.39	1572.56	1574.31	1575.48	1576.07	1577.83	1579.00	1577.24	1574.31
180.0	1574.90	1573.14	1571.97	1571.97	1572.56	1567.29	1562.61	1562.02	1557.93
225.0	1568.46	1569.63	1566.12	1564.36	1563.19	1557.93	1553.83	1549.15	1541.54
270.0	1573.14	1571.97	1569.05	1567.29	1565.54	1562.61	1558.51	1552.66	1547.98
315.0	1571.39	1569.05	1567.29	1566.12	1563.19	1562.61	1557.34	1553.83	1547.98
360.0	1574.90	1575.48	1577.24	1574.90	1576.65	1573.14	1571.97	1567.29	1560.85

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1552.66	1543.88	1529.84	1517.55	1507.01	1490.04	1473.07	1450.83	1428.59
45.0	1564.95	1559.10	1553.25	1538.62	1528.67	1517.55	1498.82	1481.85	1463.12
90.0	1564.95	1555.59	1547.39	1536.86	1526.33	1508.77	1494.72	1476.58	1457.85
135.0	1572.56	1566.71	1559.68	1549.15	1540.37	1530.42	1517.55	1497.65	1482.43
180.0	1553.25	1542.71	1537.44	1529.25	1520.47	1508.18	1494.14	1482.43	1464.29
225.0	1533.35	1523.98	1515.21	1503.50	1490.04	1477.75	1464.88	1447.91	1429.76
270.0	1540.96	1531.59	1522.23	1512.28	1497.65	1485.36	1473.07	1452.59	1436.79
315.0	1539.20	1530.42	1522.81	1509.35	1497.06	1484.77	1465.46	1449.66	1432.10
360.0	1552.66	1543.88	1529.84	1517.55	1507.01	1490.04	1473.07	1450.83	1428.59

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1408.70	1388.80	1365.39	1337.88	1311.55	1287.55	1257.12	1165.18	1165.18
45.0	1440.88	1419.81	1394.06	1371.83	1349.59	1324.42	1290.48	1265.31	1236.64
90.0	1434.44	1413.38	1387.04	1364.22	1340.22	1308.62	1282.29	1254.20	1166.65
135.0	1464.29	1440.30	1419.23	1398.16	1371.24	1346.66	1322.67	1295.16	1260.63
180.0	1447.91	1429.76	1406.35	1385.29	1359.54	1340.81	1317.40	1292.82	1260.63
225.0	1413.38	1389.38	1369.49	1349.00	1327.35	1302.18	1276.43	1249.51	1165.71
270.0	1419.81	1400.50	1376.51	1355.44	1334.37	1312.72	1282.87	1257.71	1230.20
315.0	1412.79	1389.38	1365.97	1343.74	1319.74	1288.14	1260.63	1214.99	1161.44
360.0	1408.70	1388.80	1365.39	1337.88	1311.55	1287.55	1257.12	1165.18	1165.18

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1157.63	1117.66	1084.83	1045.97	1011.97	977.68	930.68	888.61	843.19
45.0	1206.21	1167.00	1138.91	1106.13	1073.36	1031.81	999.62	965.09	914.77
90.0	1166.65	1150.61	1119.89	1087.17	1045.27	1010.86	975.63	935.77	879.12
135.0	1231.37	1192.75	1161.73	1128.96	1095.60	1053.46	1020.11	985.58	946.37
180.0	1231.96	1203.28	1174.61	1142.42	1099.70	1069.85	1035.32	989.09	952.80
225.0	1165.71	1150.38	1119.07	1078.51	1045.21	1012.03	964.51	921.38	865.43
270.0	1194.50	1167.00	1128.96	1095.01	1063.41	1031.22	989.09	947.54	905.99
315.0	1161.44	1131.06	1090.04	1056.68	1014.43	981.07	944.32	903.47	846.35
360.0	1157.63	1117.66	1084.83	1045.97	1011.97	977.68	930.68	888.61	843.19

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	794.03	730.30	677.81	623.26	569.60	501.65	447.11	394.50	341.71
45.0	870.29	809.42	758.51	705.84	653.17	589.38	537.30	484.62	433.13
90.0	830.43	781.22	716.73	664.29	599.68	547.83	495.74	443.95	380.69
135.0	892.53	844.54	782.50	730.42	677.16	611.62	560.12	506.28	453.02
180.0	896.62	850.98	800.65	736.27	682.43	627.42	574.16	505.11	450.68
225.0	816.51	764.77	712.63	646.97	594.53	540.92	487.96	422.47	371.97
270.0	859.75	797.13	746.22	695.31	643.22	577.68	525.01	459.46	407.38
315.0	797.43	746.81	696.83	630.35	576.27	521.61	468.00	402.05	350.37
360.0	794.03	730.30	677.81	623.26	569.60	501.65	447.11	394.50	341.71

NT 1635-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	279.85	232.63	178.38	140.51	107.74	76.20	60.10	51.50	45.06
45.0	370.51	321.35	297.35	297.35	171.00	132.61	100.83	69.99	57.06
90.0	331.82	283.42	238.25	186.57	147.77	113.24	84.45	59.69	51.21
135.0	388.65	337.15	300.28	300.28	181.54	142.03	106.57	76.90	54.02
180.0	398.01	345.34	295.60	295.60	187.62	147.54	104.23	76.20	55.13
225.0	322.58	276.58	219.99	178.14	130.04	97.91	70.87	49.39	42.02
270.0	357.63	297.35	297.35	241.35	155.26	120.03	89.42	65.25	48.57
315.0	288.75	242.40	199.04	150.05	114.82	85.38	64.08	49.51	43.13
360.0	279.85	232.63	178.38	140.51	107.74	76.20	60.10	51.50	45.06
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.64	31.49	27.92	24.64	20.95	18.79	17.03	15.22	14.05
45.0	48.98	42.02	35.46	30.96	26.63	23.41	21.07	18.96	16.80
90.0	43.60	37.22	32.01	27.51	24.29	21.54	19.08	17.26	15.74
135.0	45.65	40.09	33.36	28.03	23.47	20.42	17.62	15.80	14.05
180.0	41.43	36.11	29.79	25.69	22.24	18.90	15.16	13.46	12.29
225.0	36.28	30.02	25.11	21.19	18.49	16.09	14.16	12.76	11.65
270.0	42.49	36.23	30.26	25.40	22.47	19.61	17.38	15.39	14.05
315.0	36.99	31.19	26.39	23.29	20.31	17.67	15.86	14.34	12.87
360.0	36.64	31.49	27.92	24.64	20.95	18.79	17.03	15.22	14.05
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.87	11.70	10.94	10.07	9.54	9.13	8.78	8.43	8.13
45.0	15.39	14.05	12.47	11.65	10.89	10.01	9.48	8.95	8.60
90.0	14.51	13.05	12.17	11.35	10.65	9.89	9.48	8.95	8.66
135.0	12.93	11.88	11.00	10.18	9.66	9.19	8.66	8.37	8.13
180.0	11.29	10.36	9.77	9.25	8.78	8.49	8.19	7.96	7.84
225.0	10.53	9.83	9.36	8.84	8.49	8.25	7.96	7.84	7.61
270.0	12.64	11.65	10.71	9.95	9.42	8.90	8.60	8.31	8.02
315.0	11.82	10.83	10.07	9.48	8.95	8.66	8.31	8.02	7.84
360.0	12.87	11.70	10.94	10.07	9.54	9.13	8.78	8.43	8.13
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.90	7.67	7.49	7.37	7.20	7.08	7.08	6.96	6.96
45.0	8.31	8.08	7.78	7.61	7.49	7.32	7.14	7.08	7.02
90.0	8.37	8.08	7.84	7.67	7.55	7.26	7.20	7.14	7.02
135.0	7.90	7.72	7.55	7.43	7.32	7.26	7.14	7.08	7.02
180.0	7.67	7.55	7.49	7.32	7.26	7.20	7.14	7.08	7.02
225.0	7.55	7.43	7.32	7.32	7.20	7.14	7.08	7.02	6.96
270.0	7.84	7.72	7.49	7.43	7.32	7.14	7.14	7.02	6.96
315.0	7.67	7.43	7.32	7.26	7.14	7.02	6.96	6.91	6.91
360.0	7.90	7.67	7.49	7.37	7.20	7.08	7.08	6.96	6.96
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.91	6.91	6.91	6.85	6.85	6.85	6.85	6.85	6.85
45.0	6.96	6.96	6.91	6.91	6.85	6.85	6.85	6.85	6.85
90.0	6.91	6.91	6.85	6.91	6.85	6.85	6.85	6.85	6.85
135.0	6.96	6.91	6.85	6.85	6.85	6.85	6.85	6.85	6.79
180.0	6.96	6.96	6.91	6.91	6.91	6.91	6.85	6.85	6.91
225.0	6.91	6.91	6.85	6.91	6.85	6.85	6.85	6.85	6.85
270.0	6.91	6.91	6.91	6.91	6.85	6.85	6.85	6.79	6.85
315.0	6.91	6.85	6.85	6.85	6.85	6.85	6.85	6.79	6.79
360.0	6.91	6.91	6.91	6.85	6.85	6.85	6.85	6.85	6.85

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Intensity data(cd)

Appendix Page: 19 Total:19

C/γ(°)	90.0
0.0	6.85
45.0	6.85
90.0	6.91
135.0	6.85
180.0	6.85
225.0	6.85
270.0	6.85
315.0	6.79
360.0	6.85