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Nata

LumCAT: 12-0080-M5	
Luminaire: LM07126060EM	
Report No: 220517-B014	Voltage(V): 12.6100
Test No: 220517-C014	Current(A): 1.1150
LampCAT: LUMILEDS 5050	Power (W): 14.0600
Lamp flux(lm): 1735.2	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1444.17
Efficiency(%): 83.23%
Lumens(lm)/Power(W): 102.71
Central intensity(cd): 1584.049
Maximum intensity(cd): 1647.387
Angle of maximum intensity: C=270.0 γ =9.0
Beam Angle(50%Imax): [C0/180]Total=55.0
 [C90/270]Total=57.5
Field angle(10%Imax): [C0/180]Total=81.1
 [C90/270]Total=84.7
Maximum s/h(1/2): C0_180=0.84 C90_270=0.79
Maximum s/h(1/4): C0_180=0.80 C90_270=0.78
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.420%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1596.000	0.000	0	.000%	.000%
1.0	1595.739	1.527	1.527	.088%	.106%
2.0	1594.992	4.580	6.107	.264%	.423%
3.0	1593.610	7.626	13.733	.439%	.951%
4.0	1591.556	10.662	24.395	.614%	1.689%
5.0	1588.269	13.679	38.074	.788%	2.636%
6.0	1583.937	16.671	54.745	.961%	3.791%
7.0	1577.999	19.626	74.371	1.131%	5.150%
8.0	1570.829	22.536	96.907	1.299%	6.710%
9.0	1561.717	25.388	122.294	1.463%	8.468%
10.0	1550.476	28.164	150.458	1.623%	10.418%
11.0	1537.293	30.853	181.312	1.778%	12.555%
12.0	1521.832	33.441	214.752	1.927%	14.870%
13.0	1502.561	35.892	250.644	2.068%	17.356%
14.0	1480.341	38.181	288.825	2.200%	19.999%
15.0	1456.552	40.319	329.144	2.324%	22.791%
16.0	1428.617	42.276	371.42	2.436%	25.719%
17.0	1397.471	44.010	415.429	2.536%	28.766%
18.0	1360.200	45.468	460.897	2.620%	31.914%
19.0	1324.894	46.715	507.613	2.692%	35.149%
20.0	1283.507	47.741	555.354	2.751%	38.455%
21.0	1238.368	48.425	603.779	2.791%	41.808%
22.0	1192.164	48.843	652.621	2.815%	45.190%
23.0	1136.687	48.866	701.487	2.816%	48.574%
24.0	1086.461	48.606	750.093	2.801%	51.939%
25.0	1028.228	48.083	798.176	2.771%	55.269%
26.0	963.437	47.013	845.19	2.709%	58.524%
27.0	909.181	45.814	891.004	2.640%	61.697%
28.0	846.672	44.454	935.458	2.562%	64.775%
29.0	780.481	42.571	978.029	2.453%	67.723%
30.0	722.581	40.582	1018.612	2.339%	70.533%
31.0	659.131	38.451	1057.063	2.216%	73.195%
32.0	595.113	35.933	1092.995	2.071%	75.683%
33.0	541.899	33.497	1126.492	1.930%	78.003%
34.0	485.660	31.097	1157.589	1.792%	80.156%
35.0	434.366	28.573	1186.162	1.647%	82.135%
36.0	388.416	26.198	1212.359	1.510%	83.949%
37.0	346.526	23.970	1236.329	1.381%	85.608%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	305.692	21.770	1258.099	1.255%	87.116%
39.0	268.593	19.602	1277.701	1.130%	88.473%
40.0	236.905	17.630	1295.331	1.016%	89.694%
41.0	212.847	16.015	1311.346	.923%	90.803%
42.0	181.432	14.325	1325.671	.826%	91.795%
43.0	157.632	12.560	1338.231	.724%	92.664%
44.0	137.084	11.123	1349.355	.641%	93.435%
45.0	118.483	9.822	1359.176	.566%	94.115%
46.0	102.708	8.650	1367.827	.499%	94.714%
47.0	89.036	7.626	1375.453	.439%	95.242%
48.0	77.787	6.744	1382.197	.389%	95.709%
49.0	67.498	5.966	1388.163	.344%	96.122%
50.0	58.431	5.250	1393.413	.303%	96.485%
51.0	51.018	4.631	1398.044	.267%	96.806%
52.0	44.535	4.100	1402.144	.236%	97.090%
53.0	38.604	3.617	1405.761	.208%	97.340%
54.0	33.394	3.173	1408.934	.183%	97.560%
55.0	29.133	2.791	1411.725	.161%	97.753%
56.0	25.313	2.460	1414.185	.142%	97.924%
57.0	21.985	2.163	1416.348	.125%	98.074%
58.0	19.031	1.897	1418.245	.109%	98.205%
59.0	16.570	1.664	1419.909	.096%	98.320%
60.0	14.098	1.449	1421.358	.083%	98.420%
61.0	12.044	1.248	1422.605	.072%	98.507%
62.0	10.550	1.089	1423.694	.063%	98.582%
63.0	9.463	0.973	1424.668	.056%	98.650%
64.0	8.720	0.892	1425.56	.051%	98.711%
65.0	8.231	0.839	1426.399	.048%	98.769%
66.0	7.910	0.805	1427.204	.046%	98.825%
67.0	7.663	0.783	1427.987	.045%	98.879%
68.0	7.492	0.768	1428.755	.044%	98.933%
69.0	7.342	0.757	1429.511	.044%	98.985%
70.0	7.241	0.749	1430.26	.043%	99.037%
71.0	7.148	0.744	1431.004	.043%	99.088%
72.0	7.055	0.738	1431.743	.043%	99.140%
73.0	6.972	0.734	1432.476	.042%	99.190%
74.0	6.901	0.729	1433.206	.042%	99.241%
75.0	6.816	0.725	1433.93	.042%	99.291%

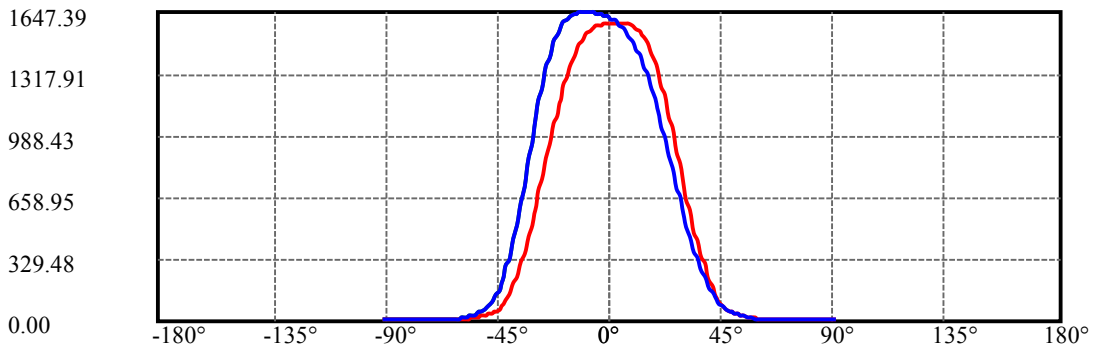
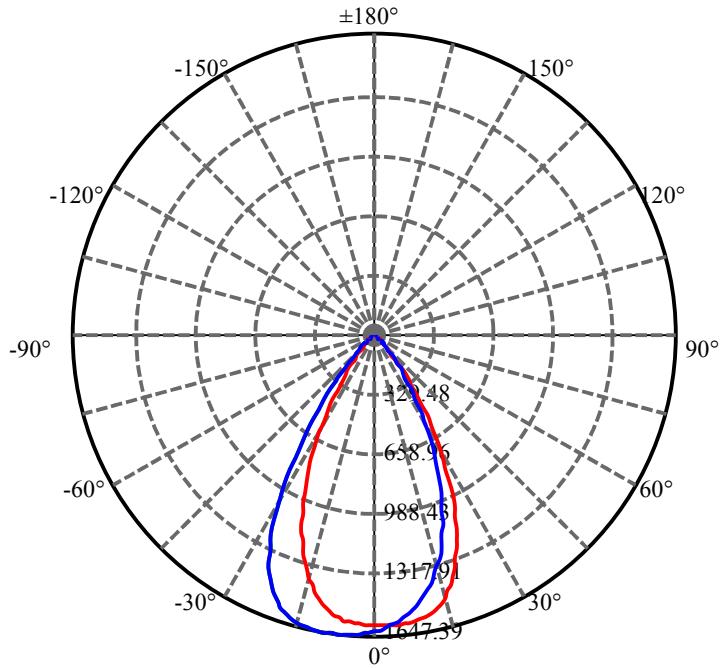
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.748	0.720	1434.65	.041%	99.341%
77.0	6.681	0.716	1435.366	.041%	99.390%
78.0	6.606	0.711	1436.078	.041%	99.440%
79.0	6.532	0.706	1436.784	.041%	99.489%
80.0	6.461	0.700	1437.484	.040%	99.537%
81.0	6.371	0.694	1438.178	.040%	99.585%
82.0	6.300	0.687	1438.865	.040%	99.633%
83.0	6.237	0.682	1439.547	.039%	99.680%
84.0	6.184	0.677	1440.223	.039%	99.727%
85.0	6.117	0.671	1440.895	.039%	99.773%
86.0	6.061	0.666	1441.56	.038%	99.819%
87.0	6.009	0.661	1442.221	.038%	99.865%
88.0	5.949	0.655	1442.876	.038%	99.910%
89.0	5.901	0.650	1443.525	.037%	99.955%
90.0	5.841	0.644	1444.169	.037%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1018.61	58.70%	70.53%
0-40	1295.33	74.65%	89.69%
0-60	1421.36	81.91%	98.42%
0-90	1443.53	83.19%	99.96%
0-120	1443.53	83.19%	99.96%
0-180	1444.17	83.23%	100.00%
60-90	23.62	1.36%	1.64%
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%
0-33.93	1155.34	66.58%	80.00%

ZONAL LUMEN SUMMARY

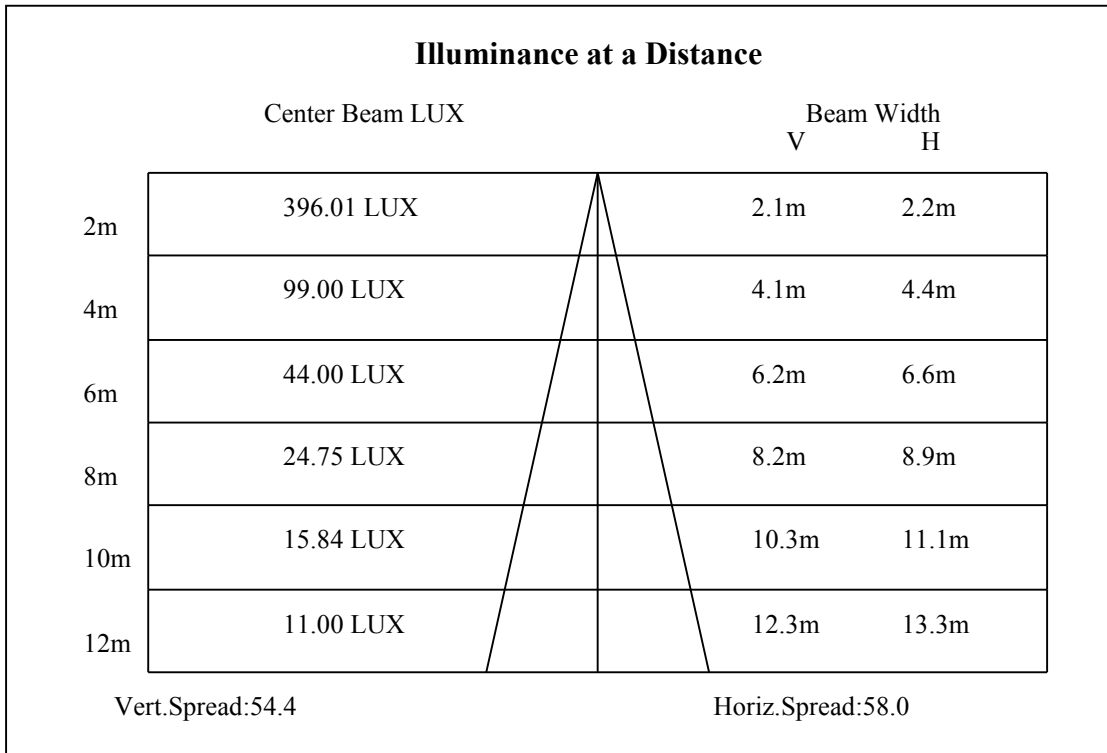
0-10	150.46
10-20	404.90
20-30	463.26
30-40	276.72
40-50	98.08
50-60	27.94
60-70	8.90
70-80	7.22
80-90	6.04
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

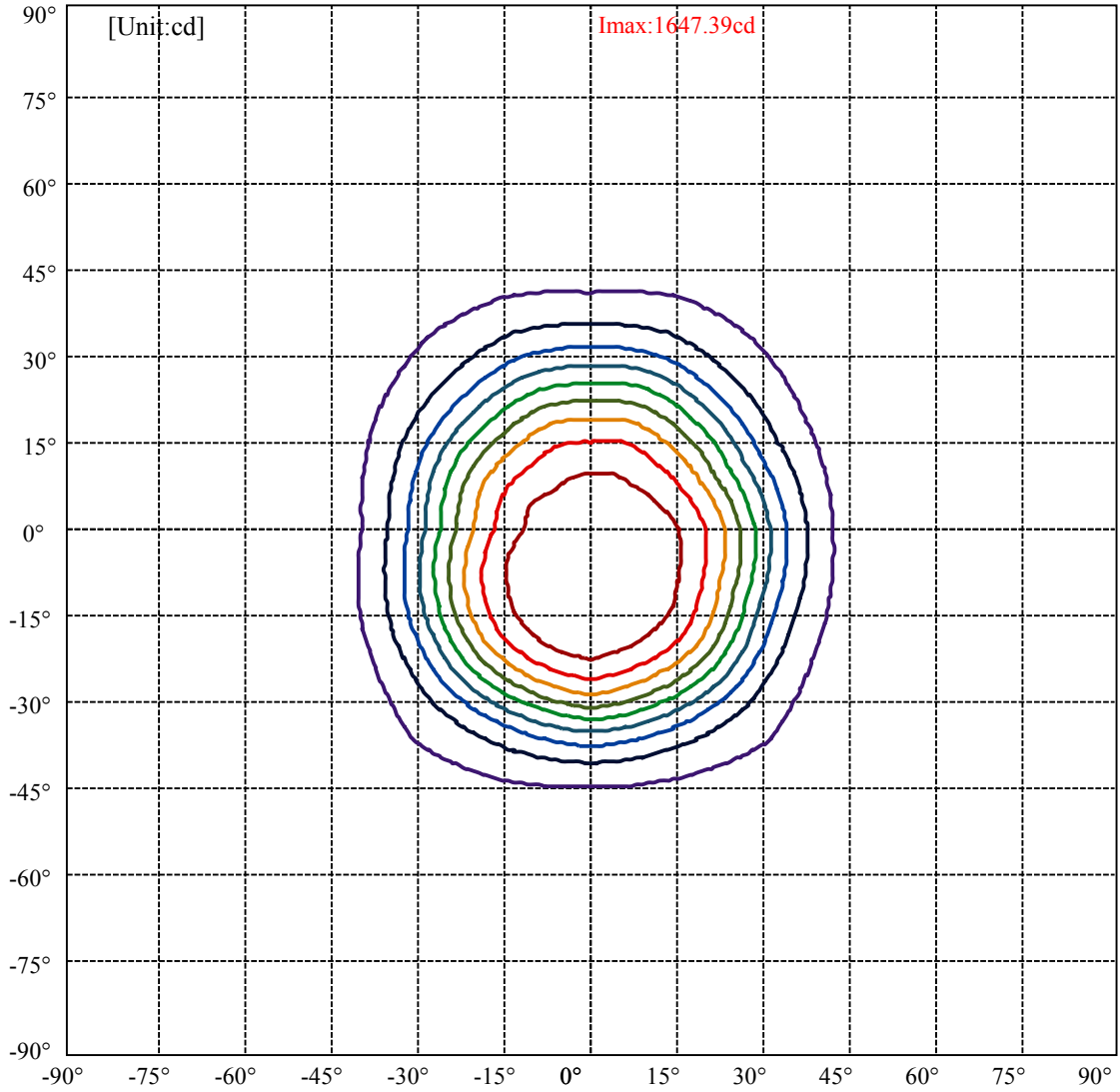


C270(Max): ———
 C0/C180: ———
 C90/C270: ———

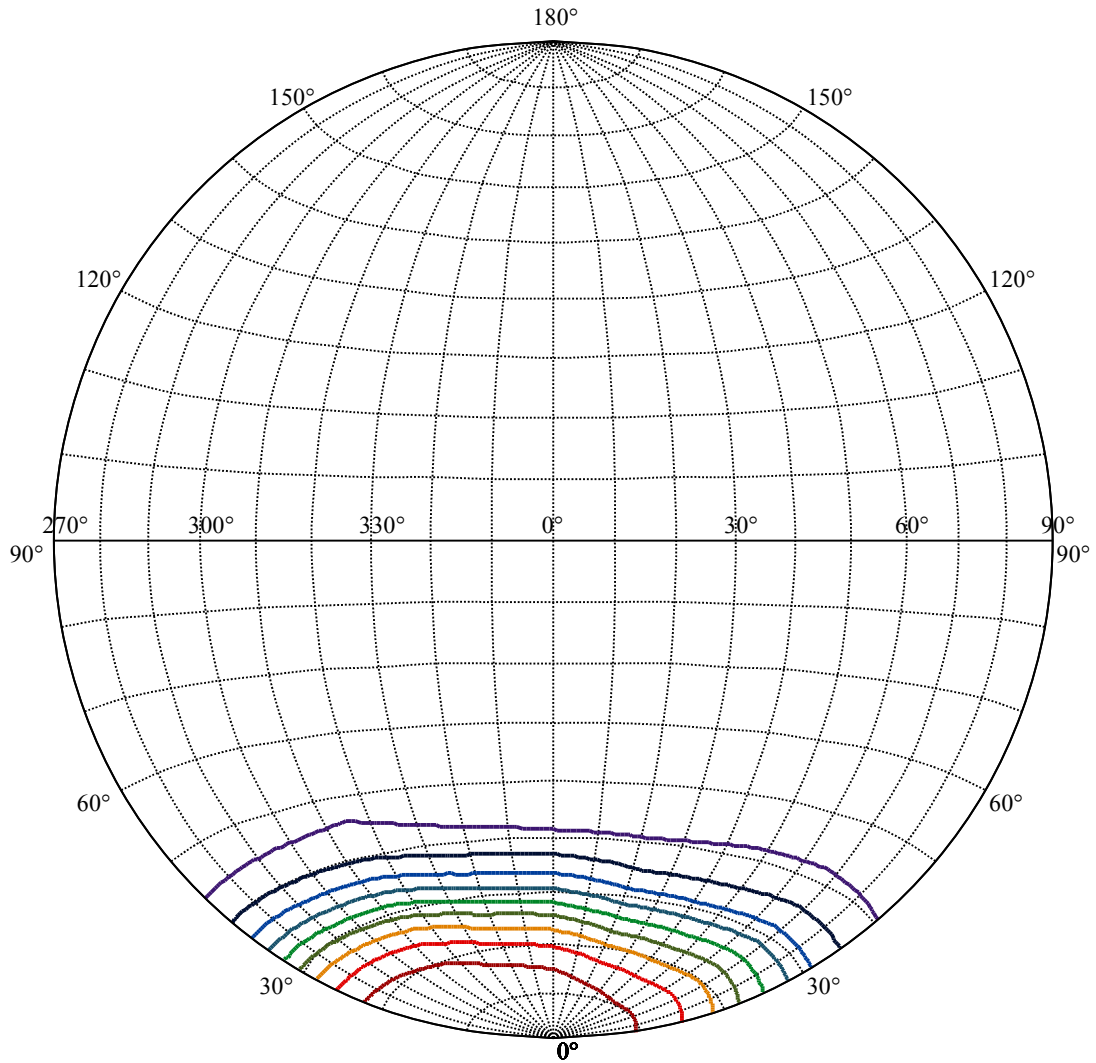
Field angle(10%Imax):C0/180Left:45.4 Right:35.7
 :C90/270Left:35.1 Right:49.5

Beam Angle(50%Imax):C0/180Left:32.3 Right:22.7
 :C90/270Left:23.6 Right:33.9





(10%Imax) 164.739	—
(20%Imax) 329.477	—
(30%Imax) 494.216	—
(40%Imax) 658.955	—
(50%Imax) 823.694	—
(60%Imax) 988.432	—
(70%Imax) 1153.17	—
(80%Imax) 1317.91	—
(90%Imax) 1482.65	—



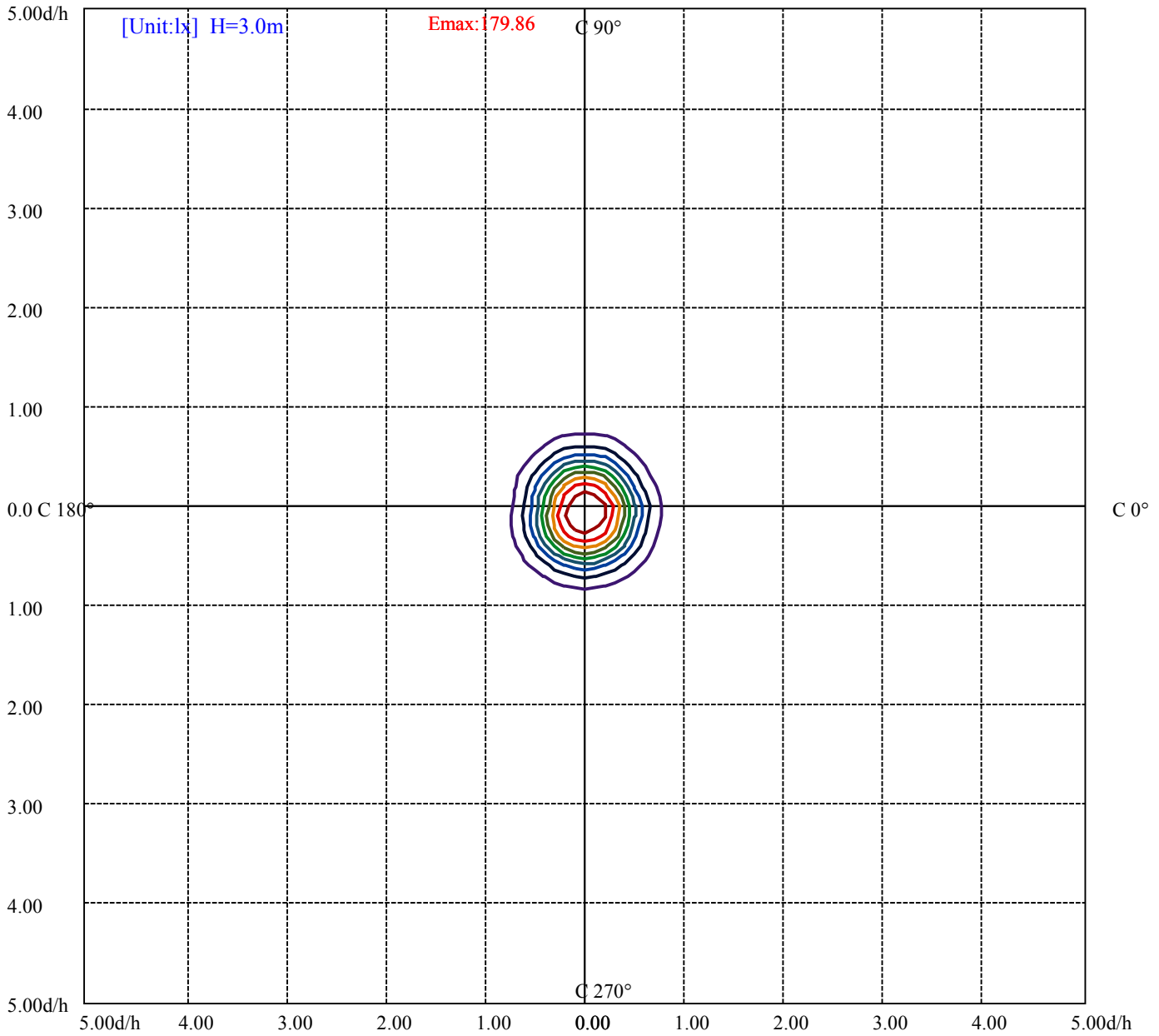
House

[Unit:cd]

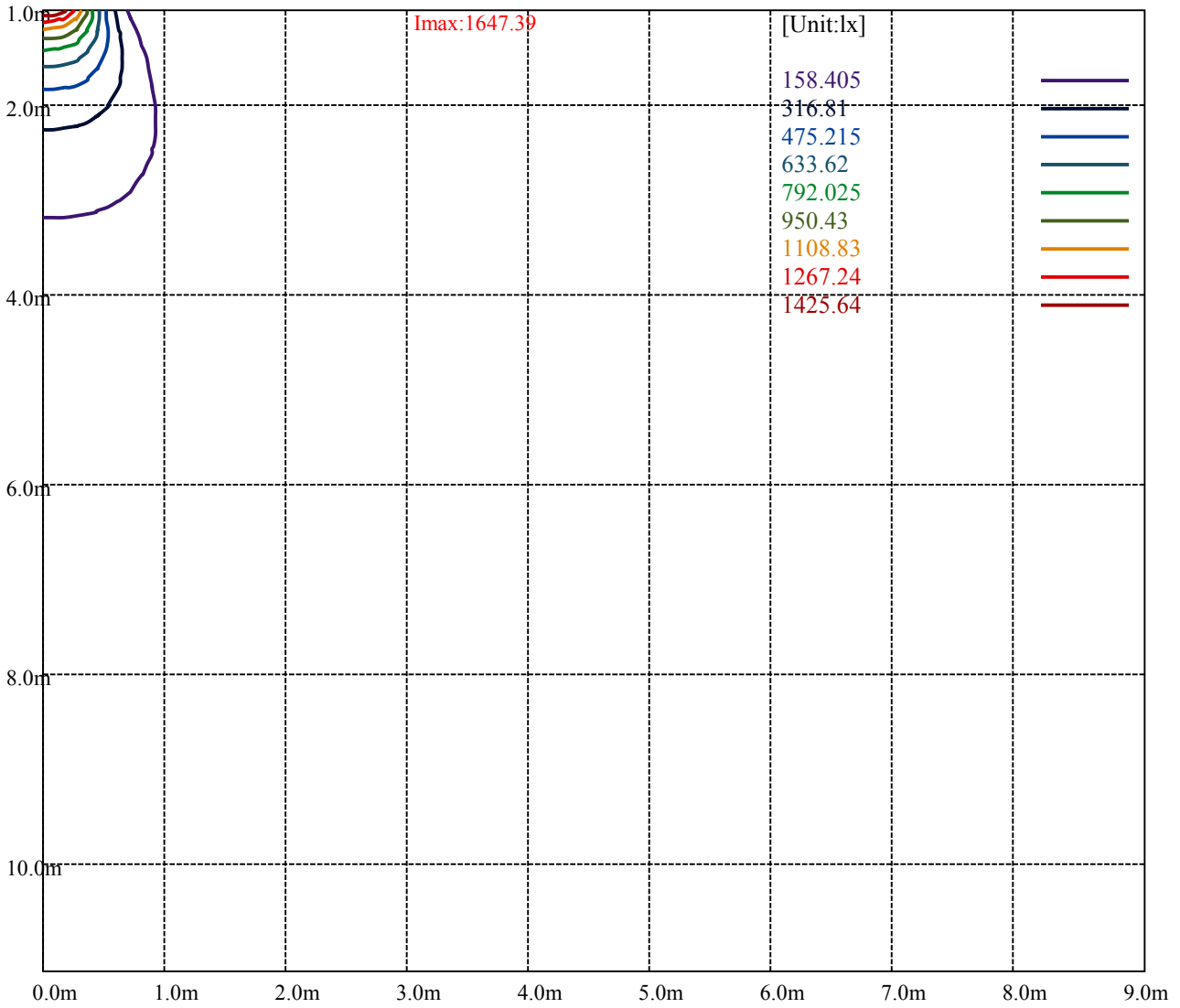
Road

Imax:1647.39

(10%Imax)	164.739	—
(20%Imax)	329.477	—
(30%Imax)	494.216	—
(40%Imax)	658.955	—
(50%Imax)	823.694	—
(60%Imax)	988.432	—
(70%Imax)	1153.17	—
(80%Imax)	1317.91	—
(90%Imax)	1482.65	—



(10%Emax) 17.98633	—
(20%Emax) 35.97255	—
(30%Emax) 53.95889	—
(40%Emax) 71.94511	—
(50%Emax) 89.93144	—
(60%Emax) 107.9177	—
(70%Emax) 125.9044	—
(80%Emax) 143.89	—
(90%Emax) 161.8767	—



Luminance Table

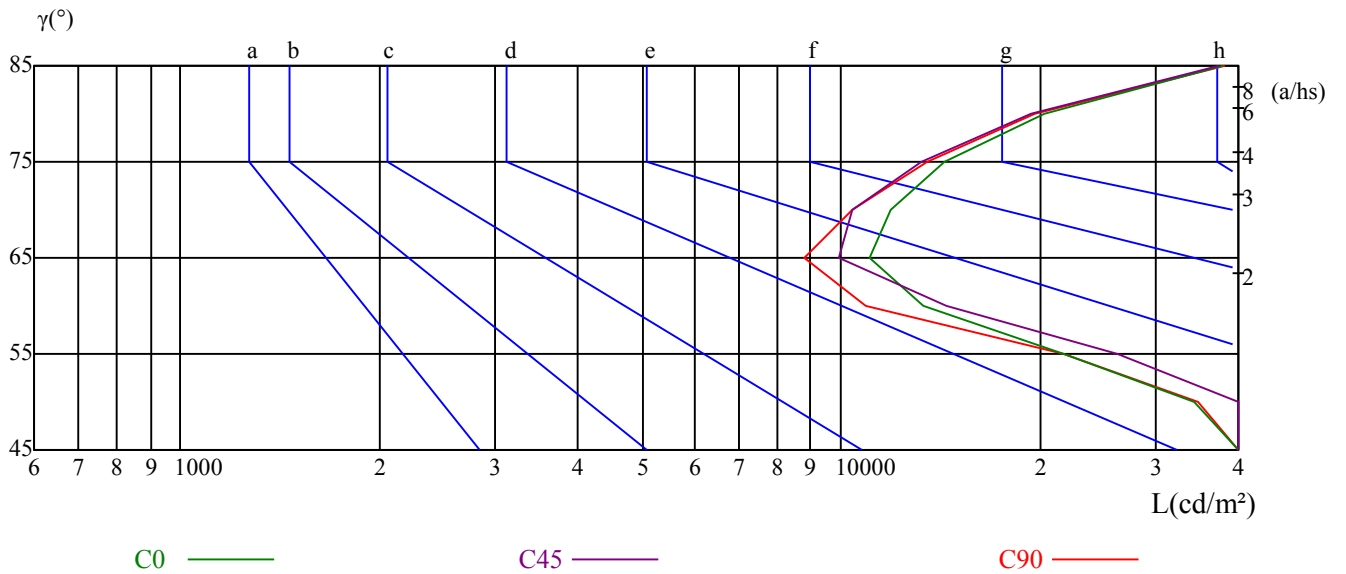
γ	45	50	55	60	65	70	75	80	85
C0	64669	34388	21748	13314	11088	11905	14359	20285	37820
C45	93415	53191	26143	14478	9941	10394	13235	19355	37450
C90	59870	34740	21748	10923	8794	10394	13485	19727	38191

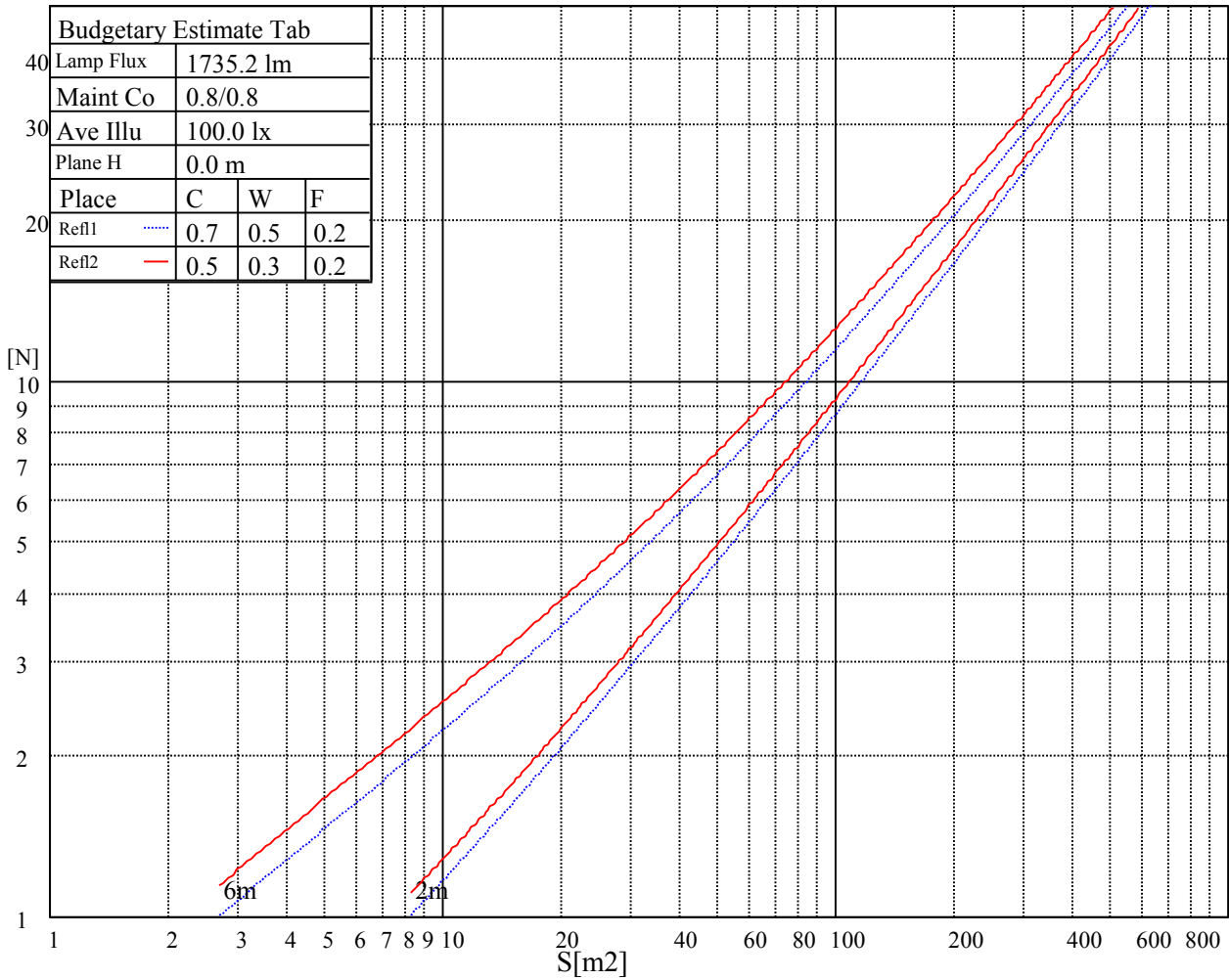
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11011	8985	10897	15420	13423	13329	38006	38006	38006

Glare Table

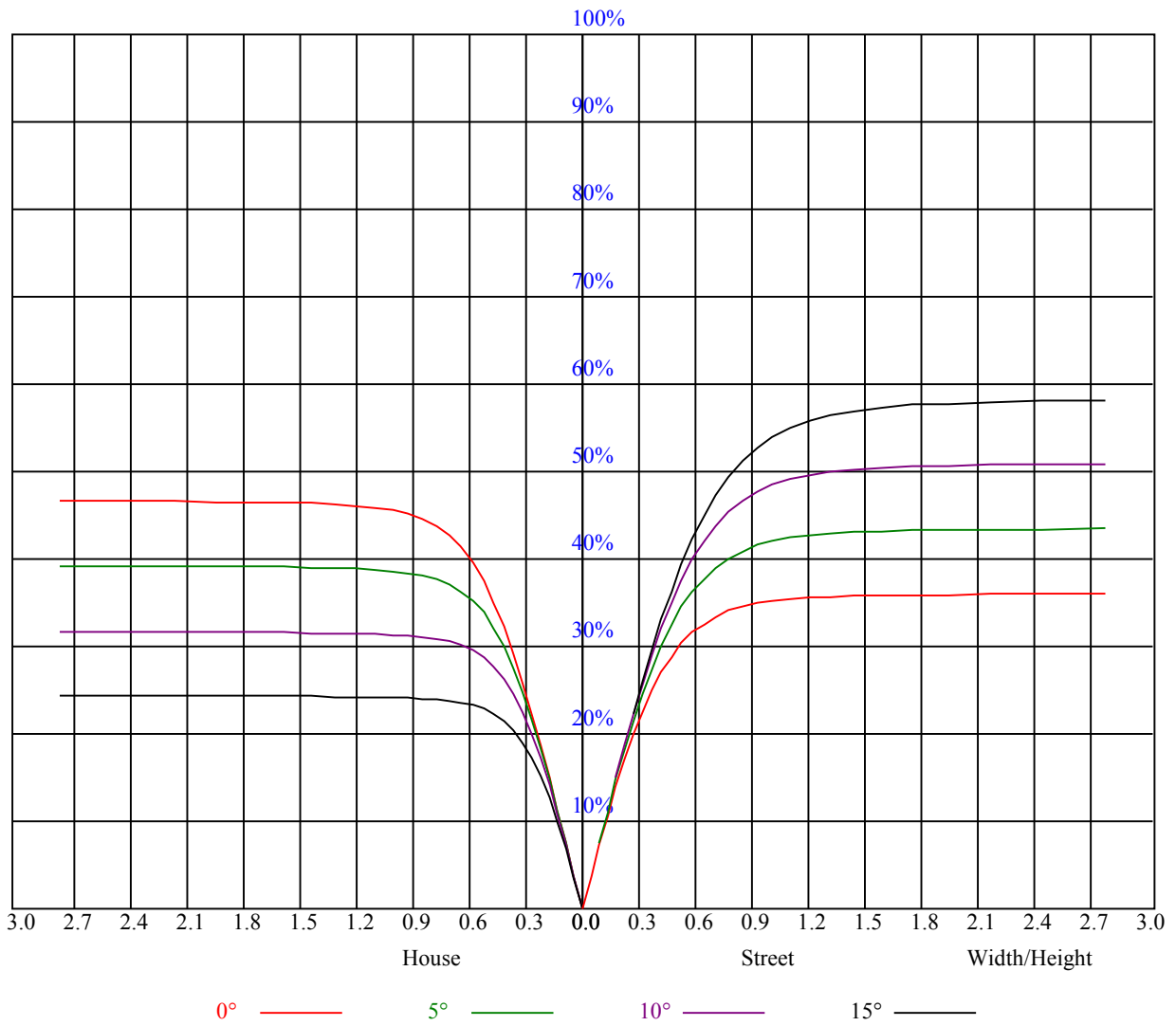
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.89	0.89	0.89	0.85	0.85	0.85	0.83
1	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.85	0.84	0.84	0.82	0.81	0.81	0.80	0.79	0.77
2	0.85	0.82	0.79	0.84	0.81	0.78	0.81	0.78	0.76	0.79	0.76	0.75	0.76	0.75	0.73	0.72
3	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.66
4	0.74	0.69	0.66	0.73	0.69	0.65	0.71	0.68	0.65	0.70	0.66	0.64	0.68	0.65	0.63	0.62
5	0.69	0.64	0.61	0.68	0.64	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.64	0.61	0.59	0.58
6	0.65	0.60	0.56	0.64	0.60	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.61	0.57	0.55	0.54
7	0.61	0.56	0.52	0.60	0.56	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.57	0.54	0.51	0.50
8	0.58	0.52	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.48	0.54	0.51	0.48	0.47
9	0.54	0.49	0.46	0.54	0.49	0.46	0.53	0.49	0.46	0.52	0.48	0.46	0.52	0.48	0.45	0.44
10	0.51	0.46	0.43	0.51	0.46	0.43	0.50	0.46	0.43	0.50	0.46	0.43	0.49	0.45	0.43	0.42



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	1584.05	1584.05	1584.65	1585.24	1585.84	1586.44	1586.44	1584.65	1581.66
22.5	1594.80	1592.41	1590.02	1588.23	1585.24	1579.87	1574.49	1567.32	1556.56
45.0	1595.40	1589.43	1584.05	1577.48	1570.31	1561.94	1550.59	1537.44	1525.49
67.5	1599.59	1594.80	1588.83	1580.46	1572.70	1563.73	1550.59	1538.64	1524.89
90.0	1617.51	1610.94	1601.98	1591.22	1580.46	1566.72	1552.98	1535.65	1515.33
112.5	1593.01	1587.04	1579.27	1570.90	1562.54	1551.78	1538.04	1525.49	1511.15
135.0	1578.07	1573.29	1566.72	1560.15	1552.38	1541.62	1530.27	1516.53	1500.99
157.5	1605.56	1602.57	1597.79	1593.61	1587.04	1578.07	1569.11	1557.16	1544.01
180.0	1584.05	1582.26	1581.66	1580.46	1577.48	1573.89	1568.51	1557.16	1546.41
202.5	1594.80	1597.20	1599.59	1601.98	1603.17	1603.77	1603.17	1600.78	1596.00
225.0	1595.40	1600.18	1604.96	1608.55	1611.54	1613.33	1615.12	1615.72	1616.32
247.5	1599.59	1604.96	1608.55	1612.73	1617.51	1620.50	1623.49	1625.88	1627.07
270.0	1617.51	1622.89	1630.06	1634.24	1637.83	1641.41	1643.80	1645.59	1646.79
292.5	1593.01	1598.99	1603.77	1608.55	1612.73	1616.32	1619.30	1621.69	1622.89
315.0	1578.07	1582.85	1588.23	1592.41	1595.40	1598.99	1601.98	1603.77	1604.96
337.5	1605.56	1607.95	1609.74	1611.54	1612.73	1613.93	1615.12	1614.52	1612.73
360.0	1584.05	1584.05	1584.65	1585.24	1585.84	1586.44	1586.44	1584.65	1581.66
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1575.68	1569.11	1560.15	1547.00	1529.67	1509.96	1484.26	1453.79	1423.31
22.5	1542.82	1527.88	1507.57	1487.25	1459.76	1428.69	1398.22	1361.17	1319.34
45.0	1509.96	1491.43	1471.12	1444.83	1418.53	1385.67	1349.22	1312.77	1273.33
67.5	1505.77	1487.25	1467.53	1442.44	1414.35	1386.86	1352.21	1318.15	1275.72
90.0	1495.62	1474.10	1444.83	1417.94	1389.25	1350.42	1316.36	1279.91	1239.87
112.5	1490.24	1471.12	1449.61	1426.30	1394.04	1365.35	1330.70	1292.46	1254.81
135.0	1486.05	1465.14	1440.64	1414.95	1388.66	1352.21	1319.34	1283.49	1231.51
157.5	1527.28	1506.97	1486.05	1461.56	1426.30	1395.23	1362.96	1319.94	1283.49
180.0	1533.26	1509.96	1492.63	1469.92	1440.64	1407.78	1376.11	1336.67	1299.63
202.5	1590.62	1584.05	1573.29	1561.94	1547.60	1526.09	1506.37	1480.68	1447.81
225.0	1615.72	1613.33	1609.74	1604.37	1594.80	1584.65	1572.10	1552.98	1533.86
247.5	1628.27	1628.86	1628.27	1625.88	1619.90	1615.12	1607.95	1597.20	1584.05
270.0	1647.39	1647.39	1645.59	1643.80	1640.81	1634.84	1628.86	1619.90	1605.56
292.5	1624.08	1622.89	1621.69	1618.71	1613.93	1607.35	1599.59	1588.23	1575.09
315.0	1605.56	1605.56	1603.77	1600.78	1595.40	1587.63	1576.88	1561.34	1541.62
337.5	1609.15	1602.57	1594.21	1581.66	1567.32	1547.60	1523.70	1499.20	1470.52
360.0	1575.68	1569.11	1560.15	1547.00	1529.67	1509.96	1484.26	1453.79	1423.31
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1383.88	1345.64	1300.22	1253.02	1207.01	1149.65	1087.50	1031.34	972.18
22.5	1278.11	1234.49	1174.74	1122.16	1067.19	993.09	936.93	878.97	813.24
45.0	1190.88	1174.26	1128.43	1068.44	1018.19	966.20	912.73	844.85	790.11
67.5	1230.31	1189.08	1138.89	1086.31	1037.31	984.13	921.99	870.60	818.02
90.0	1182.33	1138.11	1091.57	1031.81	982.76	932.98	876.04	818.73	767.88
112.5	1215.97	1168.17	1117.38	1069.58	1013.41	953.06	897.49	847.30	794.12
135.0	1188.07	1143.91	1085.41	1037.19	987.72	926.47	882.85	824.89	758.80
157.5	1245.85	1201.63	1151.44	1102.44	1045.08	982.34	932.15	871.79	818.61
180.0	1253.62	1188.66	1153.59	1099.45	1049.14	991.06	936.99	867.55	810.55
202.5	1411.36	1376.71	1333.09	1286.48	1238.68	1176.24	1129.57	1068.26	998.53
225.0	1512.35	1484.26	1451.40	1417.94	1375.51	1327.71	1280.50	1223.14	1168.17
247.5	1567.92	1545.81	1521.91	1489.64	1452.00	1411.36	1358.78	1300.82	1187.23
270.0	1591.22	1573.89	1547.60	1521.91	1492.03	1447.81	1406.58	1360.57	1302.61
292.5	1557.76	1536.25	1512.94	1481.27	1443.63	1404.79	1361.17	1299.63	1190.64
315.0	1521.91	1498.60	1465.14	1434.07	1398.82	1348.62	1304.41	1255.41	1194.46
337.5	1431.68	1398.82	1362.37	1312.17	1266.16	1191.47	1157.71	1087.80	1029.84
360.0	1383.88	1345.64	1300.22	1253.02	1207.01	1149.65	1087.50	1031.34	972.18

Intensity data(cd)

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	896.89	834.75	774.40	708.07	644.14	590.36	530.61	473.24	425.44
22.5	746.31	691.94	626.81	573.03	515.07	460.69	416.48	375.85	328.64
45.0	734.96	672.34	610.38	557.32	501.27	448.98	406.74	363.84	329.72
67.5	757.67	702.10	648.32	591.55	538.37	488.78	445.16	403.93	362.70
90.0	711.06	660.15	603.44	548.71	502.10	452.57	406.92	369.51	333.84
112.5	737.35	679.39	632.19	586.18	526.42	477.43	443.96	388.99	356.13
135.0	712.91	661.05	591.08	548.23	500.85	439.54	403.99	366.76	329.30
157.5	755.87	693.73	637.56	581.40	516.86	467.27	420.66	370.47	334.02
180.0	752.65	694.93	617.43	568.97	515.13	451.49	403.99	360.97	317.11
202.5	945.77	883.81	800.93	749.42	689.79	608.64	559.11	505.03	447.73
225.0	1100.65	1028.94	964.41	899.88	818.61	752.89	687.16	608.28	549.73
247.5	1179.28	1105.31	1028.47	958.44	886.91	797.16	726.71	658.06	576.50
270.0	1236.89	1174.74	1100.65	1031.93	951.86	869.40	795.91	715.24	635.77
292.5	1183.05	1104.29	1038.68	971.22	892.77	813.30	743.21	665.71	599.38
315.0	1126.34	1061.81	987.72	923.18	849.69	774.40	708.07	634.58	565.86
337.5	969.25	897.49	825.25	763.76	696.24	628.90	571.72	510.11	458.01
360.0	896.89	834.75	774.40	708.07	644.14	590.36	530.61	473.24	425.44
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	375.85	335.21	306.53	249.29	216.60	183.86	148.31	124.23	104.27
22.5	303.54	262.97	232.92	204.89	180.81	159.36	129.60	111.44	96.44
45.0	294.58	263.45	239.37	215.41	193.96	177.35	162.23	145.98	133.85
67.5	325.06	301.75	267.69	236.38	213.26	190.73	167.07	148.67	131.70
90.0	292.31	261.54	232.86	200.05	176.09	154.88	131.22	109.11	93.04
112.5	328.04	302.35	258.91	233.63	207.28	185.77	163.66	143.41	125.30
135.0	296.08	269.43	242.30	218.40	199.81	181.83	167.49	152.73	138.81
157.5	305.34	268.71	235.31	210.27	183.20	161.45	139.16	121.42	101.04
180.0	274.56	238.06	202.08	171.19	139.58	113.29	94.29	77.56	64.47
202.5	395.44	353.32	311.01	271.58	238.53	204.59	175.61	144.90	118.91
225.0	494.75	437.39	386.00	345.97	307.73	303.54	246.66	224.19	201.55
247.5	516.62	462.73	409.13	361.33	323.02	284.42	252.75	219.89	190.01
270.0	570.04	508.50	435.00	380.03	330.43	301.75	235.73	202.44	168.56
292.5	529.59	466.97	417.19	365.57	318.90	282.21	248.51	210.39	183.32
315.0	507.90	454.12	394.37	351.94	315.50	302.95	248.45	225.27	204.95
337.5	404.95	357.92	320.40	281.56	245.76	217.56	192.17	160.50	137.13
360.0	375.85	335.21	306.53	249.29	216.60	183.86	148.31	124.23	104.27
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	84.55	72.06	62.08	53.18	46.13	40.87	35.97	32.39	28.86
22.5	77.74	67.04	59.22	50.07	43.26	38.96	33.94	30.47	27.43
45.0	122.13	109.77	97.58	86.58	74.57	63.22	54.26	45.65	39.08
67.5	113.53	96.14	82.52	70.21	60.77	52.64	45.89	40.75	36.03
90.0	78.28	67.88	58.74	51.45	46.25	41.29	36.93	33.34	29.94
112.5	105.88	89.27	77.02	66.86	56.83	50.37	44.93	39.80	35.43
135.0	127.21	116.40	103.19	92.68	82.52	70.45	61.07	51.81	43.14
157.5	85.86	73.74	62.26	54.14	46.43	40.45	36.09	32.27	28.14
180.0	55.63	48.52	41.59	37.17	33.34	29.22	26.35	23.72	21.03
202.5	99.49	83.53	68.12	58.80	51.33	43.74	38.84	34.78	31.37
225.0	181.77	164.08	148.49	133.55	117.06	100.03	85.75	73.02	59.57
247.5	166.17	141.61	119.86	103.37	89.45	74.57	64.53	56.41	48.64
270.0	139.88	118.61	98.65	84.31	71.29	60.77	53.30	46.91	40.21
292.5	158.46	130.56	111.50	95.43	79.35	68.72	59.81	50.73	45.47
315.0	183.08	167.73	153.39	137.79	122.43	109.05	94.23	81.74	68.66
337.5	116.04	96.38	80.37	69.01	58.98	50.55	44.40	38.78	34.66
360.0	84.55	72.06	62.08	53.18	46.13	40.87	35.97	32.39	28.86

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.05	23.06	20.38	17.93	15.83	14.04	12.31	10.93	10.10
22.5	24.02	21.51	19.30	16.91	15.06	13.32	11.35	10.34	9.80
45.0	32.86	27.73	23.90	20.55	17.27	15.12	13.38	11.41	10.16
67.5	31.97	28.74	25.93	22.71	20.32	18.11	14.88	12.61	10.76
90.0	25.99	23.06	20.38	17.27	14.40	12.07	10.10	8.78	7.95
112.5	32.09	28.62	25.45	22.83	20.14	17.75	14.70	12.19	9.92
135.0	34.48	29.34	25.16	21.33	18.34	16.07	13.98	12.13	10.70
157.5	25.34	22.83	20.08	18.11	16.31	14.34	12.55	11.41	10.34
180.0	18.52	16.49	14.34	12.67	11.23	10.22	9.56	9.14	8.90
202.5	27.55	24.86	22.35	19.66	17.21	15.12	12.91	11.11	10.10
225.0	50.79	43.32	35.61	30.59	26.11	21.93	18.40	15.89	13.50
247.5	42.07	36.93	32.03	27.61	24.20	21.03	18.11	14.52	11.29
270.0	35.49	30.89	25.87	22.47	19.24	15.89	12.55	10.34	8.84
292.5	39.50	33.76	30.29	26.65	22.23	19.72	16.49	12.31	10.40
315.0	56.94	47.80	39.50	32.68	27.73	23.66	19.54	16.85	14.64
337.5	30.65	27.19	24.44	21.81	18.88	16.73	14.76	12.73	11.41
360.0	26.05	23.06	20.38	17.93	15.83	14.04	12.31	10.93	10.10
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.44	9.08	8.66	8.43	8.13	7.95	7.71	7.53	7.41
22.5	9.38	9.14	8.96	8.72	8.54	8.37	8.13	7.95	7.77
45.0	9.08	8.31	7.77	7.41	7.11	6.87	6.69	6.57	6.57
67.5	8.90	7.95	7.47	7.17	6.99	6.87	6.75	6.69	6.63
90.0	7.41	7.11	6.87	6.81	6.69	6.63	6.63	6.57	6.51
112.5	8.60	7.71	7.35	7.11	6.93	6.81	6.75	6.69	6.69
135.0	9.38	8.48	7.77	7.23	6.99	6.75	6.63	6.51	6.51
157.5	9.74	9.26	8.96	8.78	8.54	8.43	8.25	8.13	7.89
180.0	8.72	8.60	8.54	8.54	8.48	8.48	8.43	8.37	8.25
202.5	9.56	9.32	9.20	9.14	9.14	9.08	9.08	9.08	9.08
225.0	11.77	10.10	8.78	8.13	7.65	7.35	7.17	6.99	6.81
247.5	9.32	8.13	7.53	7.11	6.87	6.63	6.51	6.45	6.45
270.0	8.07	7.53	7.17	6.93	6.69	6.63	6.51	6.51	6.45
292.5	9.02	8.19	7.59	7.29	6.99	6.87	6.69	6.69	6.63
315.0	12.55	10.88	9.74	8.78	8.19	7.71	7.41	7.17	6.93
337.5	10.46	9.74	9.32	8.96	8.66	8.43	8.13	7.95	7.77
360.0	9.44	9.08	8.66	8.43	8.13	7.95	7.71	7.53	7.41
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.29	7.17	6.99	6.87	6.81	6.75	6.63	6.57	6.51
22.5	7.59	7.41	7.23	6.99	6.81	6.63	6.39	6.27	6.21
45.0	6.45	6.39	6.39	6.33	6.33	6.27	6.27	6.21	6.21
67.5	6.57	6.57	6.57	6.51	6.45	6.45	6.45	6.39	6.33
90.0	6.51	6.51	6.45	6.45	6.39	6.39	6.39	6.39	6.33
112.5	6.69	6.69	6.63	6.57	6.51	6.51	6.45	6.45	6.39
135.0	6.45	6.39	6.39	6.39	6.33	6.33	6.33	6.33	6.33
157.5	7.77	7.65	7.41	7.23	7.11	6.87	6.69	6.63	6.51
180.0	8.13	8.01	7.95	7.89	7.83	7.77	7.71	7.53	7.29
202.5	9.02	8.96	8.90	8.78	8.66	8.48	8.25	7.95	7.65
225.0	6.63	6.57	6.45	6.33	6.33	6.33	6.27	6.21	6.21
247.5	6.39	6.27	6.33	6.27	6.21	6.21	6.21	6.15	6.15
270.0	6.45	6.39	6.39	6.39	6.33	6.33	6.27	6.27	6.27
292.5	6.57	6.51	6.51	6.39	6.39	6.33	6.27	6.27	6.21
315.0	6.75	6.57	6.51	6.45	6.45	6.39	6.39	6.33	6.33
337.5	7.59	7.47	7.29	7.17	6.99	6.81	6.69	6.51	6.39
360.0	7.29	7.17	6.99	6.87	6.81	6.75	6.63	6.57	6.51

Intensity data(cd)

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.39	6.33	6.27	6.21	6.09	6.04	6.04	5.98	5.92
22.5	6.09	6.04	5.92	5.92	5.86	5.80	5.80	5.68	5.62
45.0	6.21	6.15	6.09	6.09	6.04	6.04	5.92	5.92	5.86
67.5	6.33	6.27	6.27	6.21	6.15	6.15	6.04	5.98	5.98
90.0	6.27	6.27	6.21	6.21	6.15	6.09	6.04	5.98	5.98
112.5	6.33	6.33	6.33	6.33	6.21	6.15	6.15	6.09	6.09
135.0	6.27	6.27	6.21	6.21	6.21	6.15	6.09	6.04	6.04
157.5	6.39	6.27	6.21	6.09	6.04	6.04	5.98	5.92	5.92
180.0	6.99	6.75	6.51	6.33	6.15	5.98	5.80	5.68	5.50
202.5	7.29	6.99	6.69	6.51	6.27	6.09	5.98	5.86	5.74
225.0	6.15	6.09	6.09	6.04	6.04	5.98	5.98	5.98	5.92
247.5	6.15	6.09	6.09	6.09	6.09	6.09	6.04	5.98	5.92
270.0	6.21	6.15	6.15	6.09	6.09	6.04	5.98	5.92	5.92
292.5	6.21	6.21	6.21	6.15	6.15	6.09	6.09	6.04	5.98
315.0	6.27	6.27	6.27	6.27	6.21	6.21	6.15	6.15	6.09
337.5	6.33	6.27	6.21	6.15	6.09	6.04	6.09	6.04	5.98
360.0	6.39	6.33	6.27	6.21	6.09	6.04	6.04	5.98	5.92
C/γ(°)	90.0								
0.0	5.68								
22.5	5.56								
45.0	5.80								
67.5	5.92								
90.0	5.98								
112.5	6.04								
135.0	5.98								
157.5	5.80								
180.0	5.56								
202.5	5.68								
225.0	5.86								
247.5	5.92								
270.0	5.86								
292.5	5.92								
315.0	6.04								
337.5	5.92								
360.0	5.68								