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Nata

LumCAT: 12-0080-M4
Luminaire: LM07126060EM

Report No: 220512-B006	Voltage(V): 12.8200
Test No: 220512-C006	Current(A): 1.1160
LampCAT: LUMILEDS 5050	Power (W): 14.3070
Lamp flux(lm): 1696.5	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 47
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 1255.68
Efficiency(%): 74.02%
Lumens(lm)/Power(W): 87.77
Central intensity(cd): 1508.761
Maximum intensity(cd): 1536.247
Angle of maximum intensity: C=90.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=54.1
[C90/270]Total=56.1
Field angle(10%Imax): [C0/180]Total=77.4
[C90/270]Total=79.9
Maximum s/h(1/2): C0_180=0.84 C90_270=0.86
Maximum s/h(1/4): C0_180=0.79 C90_270=0.80
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 74.02%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.681%

Equipment: GMS1980	Date: 2022/5/12	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.73

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1519.367	0.000	0	.000%	.000%
1.0	1519.292	1.454	1.454	.086%	.116%
2.0	1518.583	4.360	5.814	.257%	.463%
3.0	1517.574	7.261	13.076	.428%	1.041%
4.0	1516.118	10.155	23.23	.599%	1.850%
5.0	1513.914	13.035	36.265	.768%	2.888%
6.0	1510.852	15.896	52.161	.937%	4.154%
7.0	1506.371	18.728	70.889	1.104%	5.645%
8.0	1500.731	21.521	92.411	1.269%	7.359%
9.0	1492.739	24.260	116.671	1.430%	9.291%
10.0	1482.768	26.927	143.598	1.587%	11.436%
11.0	1470.855	29.513	173.111	1.740%	13.786%
12.0	1456.664	32.002	205.113	1.886%	16.335%
13.0	1438.402	34.357	239.47	2.025%	19.071%
14.0	1416.629	36.544	276.014	2.154%	21.981%
15.0	1392.877	38.570	314.584	2.274%	25.053%
16.0	1364.308	40.400	354.985	2.381%	28.270%
17.0	1332.826	42.002	396.987	2.476%	31.615%
18.0	1293.553	43.303	440.29	2.553%	35.064%
19.0	1251.883	44.285	484.575	2.610%	38.591%
20.0	1206.075	44.987	529.563	2.652%	42.173%
21.0	1156.506	45.366	574.929	2.674%	45.786%
22.0	1107.550	45.497	620.426	2.682%	49.410%
23.0	1051.569	45.304	665.73	2.670%	53.018%
24.0	992.552	44.692	710.422	2.634%	56.577%
25.0	930.887	43.735	754.157	2.578%	60.060%
26.0	869.700	42.503	796.66	2.505%	63.445%
27.0	804.763	40.966	837.626	2.415%	66.707%
28.0	743.039	39.187	876.813	2.310%	69.828%
29.0	676.619	37.142	913.955	2.189%	72.786%
30.0	615.421	34.885	948.84	2.056%	75.564%
31.0	554.440	32.556	981.396	1.919%	78.157%
32.0	494.866	30.061	1011.457	1.772%	80.551%
33.0	441.977	27.600	1039.057	1.627%	82.749%
34.0	390.732	25.200	1064.257	1.485%	84.756%
35.0	344.020	22.819	1087.076	1.345%	86.573%
36.0	304.303	20.643	1107.718	1.217%	88.217%
37.0	261.721	18.461	1126.179	1.088%	89.687%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	227.102	16.316	1142.495	.962%	90.986%
39.0	189.671	14.226	1156.721	.839%	92.119%
40.0	161.751	12.256	1168.977	.722%	93.095%
41.0	137.122	10.643	1179.62	.627%	93.943%
42.0	114.531	9.143	1188.763	.539%	94.671%
43.0	95.485	7.780	1196.543	.459%	95.291%
44.0	80.312	6.635	1203.178	.391%	95.819%
45.0	66.972	5.660	1208.838	.334%	96.270%
46.0	55.903	4.805	1213.643	.283%	96.652%
47.0	46.667	4.079	1217.723	.240%	96.977%
48.0	39.388	3.479	1221.202	.205%	97.254%
49.0	32.860	2.967	1224.168	.175%	97.491%
50.0	27.408	2.513	1226.681	.148%	97.691%
51.0	23.244	2.143	1228.824	.126%	97.861%
52.0	19.845	1.849	1230.673	.109%	98.009%
53.0	16.824	1.595	1232.268	.094%	98.136%
54.0	14.412	1.377	1233.645	.081%	98.245%
55.0	12.514	1.202	1234.847	.071%	98.341%
56.0	10.819	1.054	1235.901	.062%	98.425%
57.0	9.527	0.930	1236.832	.055%	98.499%
58.0	8.474	0.832	1237.664	.049%	98.565%
59.0	7.656	0.754	1238.418	.044%	98.625%
60.0	7.043	0.694	1239.113	.041%	98.681%
61.0	6.565	0.649	1239.762	.038%	98.732%
62.0	6.218	0.616	1240.378	.036%	98.782%
63.0	5.979	0.593	1240.971	.035%	98.829%
64.0	5.822	0.579	1241.55	.034%	98.875%
65.0	5.714	0.571	1242.121	.034%	98.920%
66.0	5.632	0.566	1242.687	.033%	98.965%
67.0	5.572	0.563	1243.251	.033%	99.010%
68.0	5.497	0.561	1243.811	.033%	99.055%
69.0	5.449	0.558	1244.37	.033%	99.099%
70.0	5.393	0.557	1244.927	.033%	99.144%
71.0	5.333	0.554	1245.481	.033%	99.188%
72.0	5.273	0.551	1246.032	.033%	99.232%
73.0	5.236	0.550	1246.582	.032%	99.276%
74.0	5.195	0.548	1247.13	.032%	99.319%
75.0	5.139	0.546	1247.676	.032%	99.363%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.101	0.544	1248.22	.032%	99.406%
77.0	5.045	0.541	1248.761	.032%	99.449%
78.0	5.019	0.539	1249.3	.032%	99.492%
79.0	4.974	0.537	1249.837	.032%	99.535%
80.0	4.948	0.535	1250.372	.032%	99.577%
81.0	4.918	0.534	1250.905	.031%	99.620%
82.0	4.892	0.532	1251.437	.031%	99.662%
83.0	4.885	0.531	1251.969	.031%	99.705%
84.0	4.885	0.532	1252.501	.031%	99.747%
85.0	4.877	0.533	1253.034	.031%	99.789%
86.0	4.851	0.532	1253.565	.031%	99.832%
87.0	4.840	0.530	1254.096	.031%	99.874%
88.0	4.814	0.529	1254.625	.031%	99.916%
89.0	4.806	0.527	1255.152	.031%	99.958%
90.0	4.795	0.526	1255.678	.031%	100.000%

Zonal flux distribution table

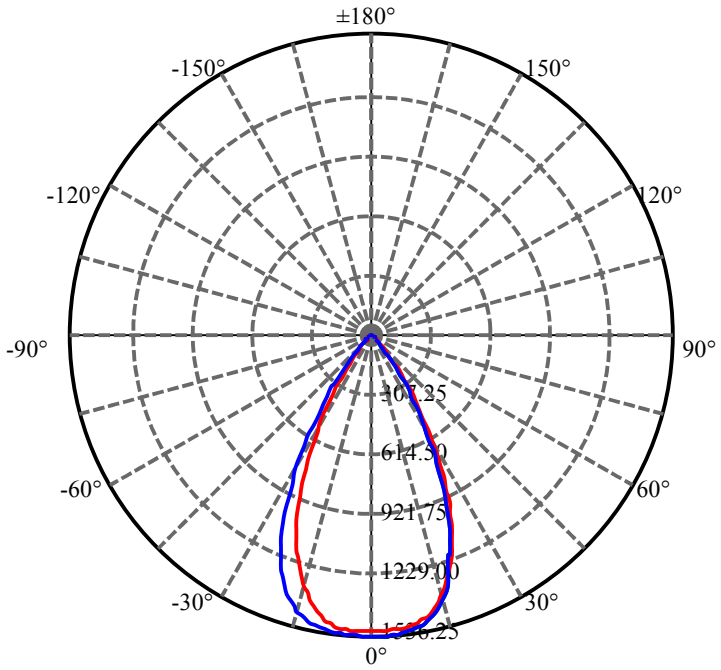
ZONAL LUMEN SUMMARY

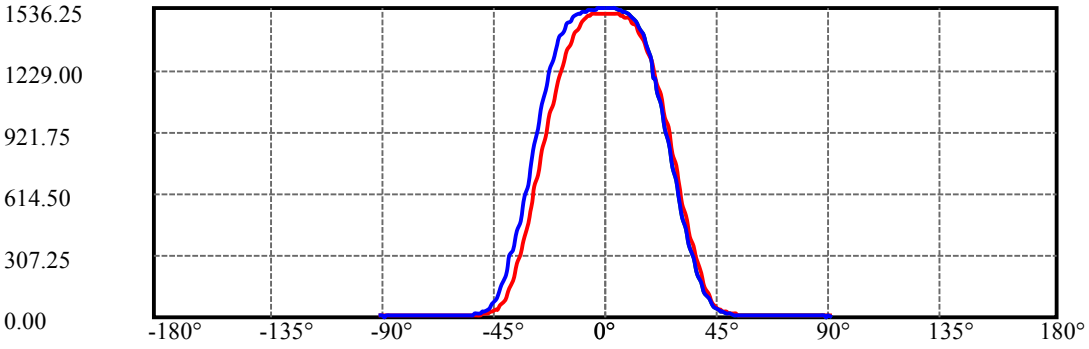
Zone	Lumens	%Lamp	%Fixt
0-30	948.84	55.93%	75.56%
0-40	1168.98	68.91%	93.10%
0-60	1239.11	73.04%	98.68%
0-90	1255.15	73.99%	99.96%
0-120	1255.15	73.99%	99.96%
0-180	1255.68	74.02%	100.00%
60-90	16.73	0.99%	1.33%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-31.77	1004.54	59.21%	80.00%

ZONAL LUMEN SUMMARY

0-10	143.60
10-20	385.96
20-30	419.28
30-40	220.14
40-50	57.70
50-60	12.43
60-70	5.81
70-80	5.44
80-90	4.78
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

Light Distribution Curve [Unit:cd]





C90(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:36.8 Right:40.7

:C90/270Left:42.3 Right:37.6

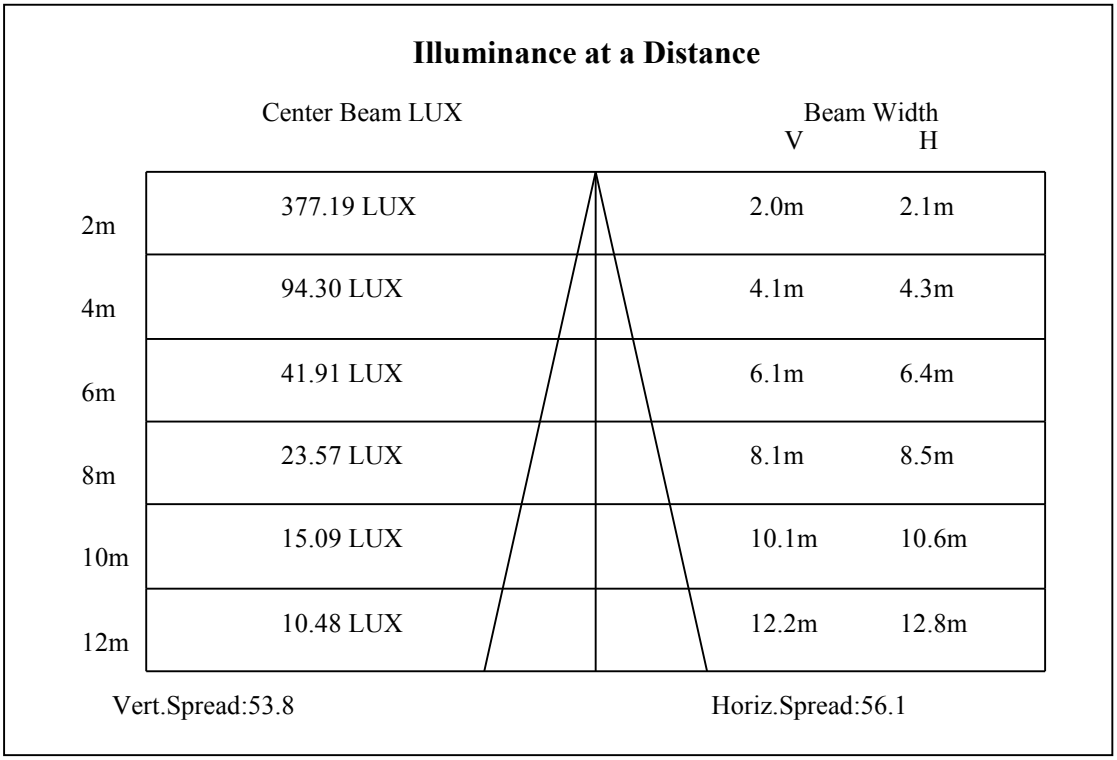
Beam Angle(50%Imax):C0/180Left:25.1 Right:29.0

:C90/270Left:30.5 Right:25.6

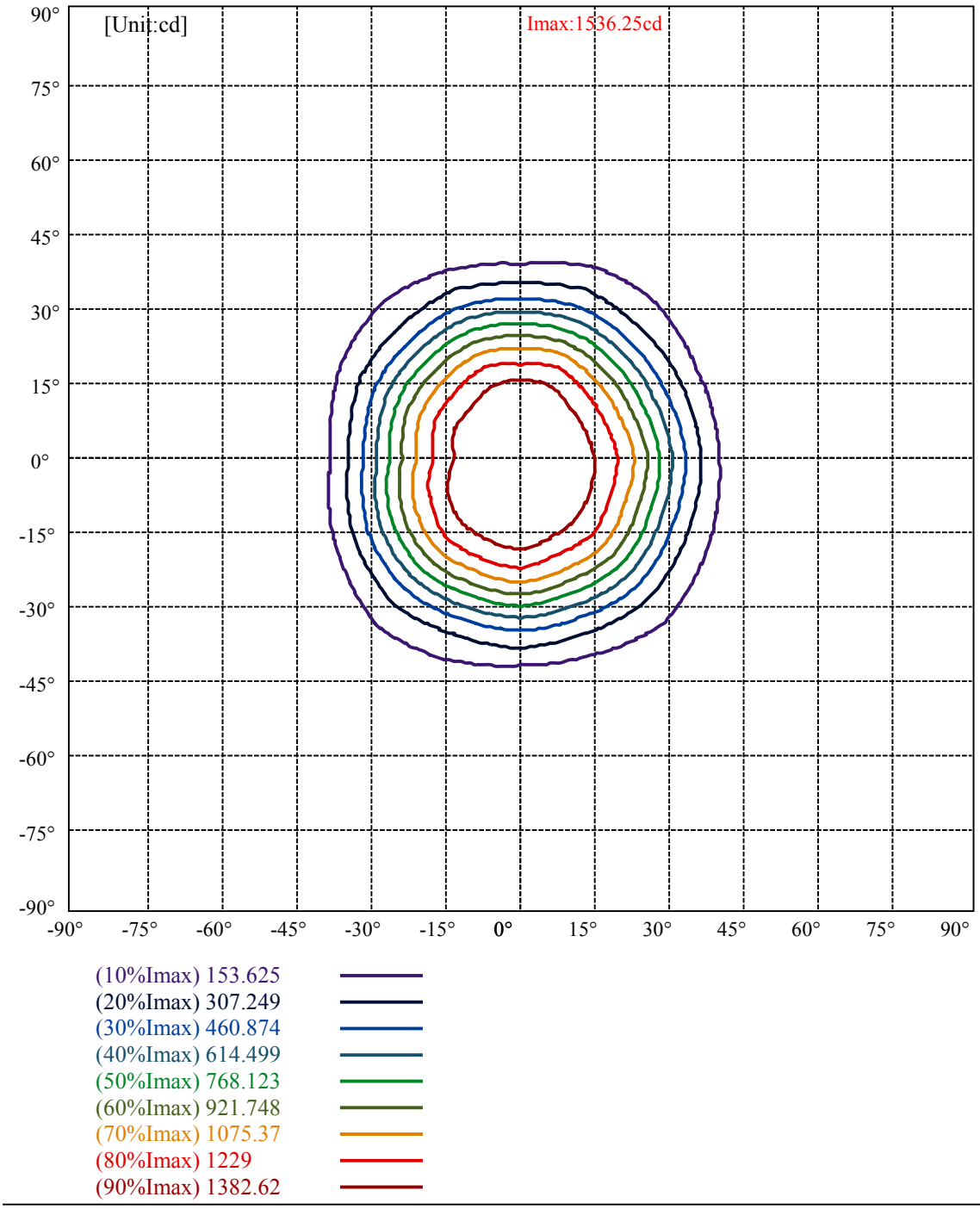
Equipment: GMS1980 Date: 2022/5/12 Operator: NT07

Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.73

Lux distance Curve



ISO-Intensity(V-H)

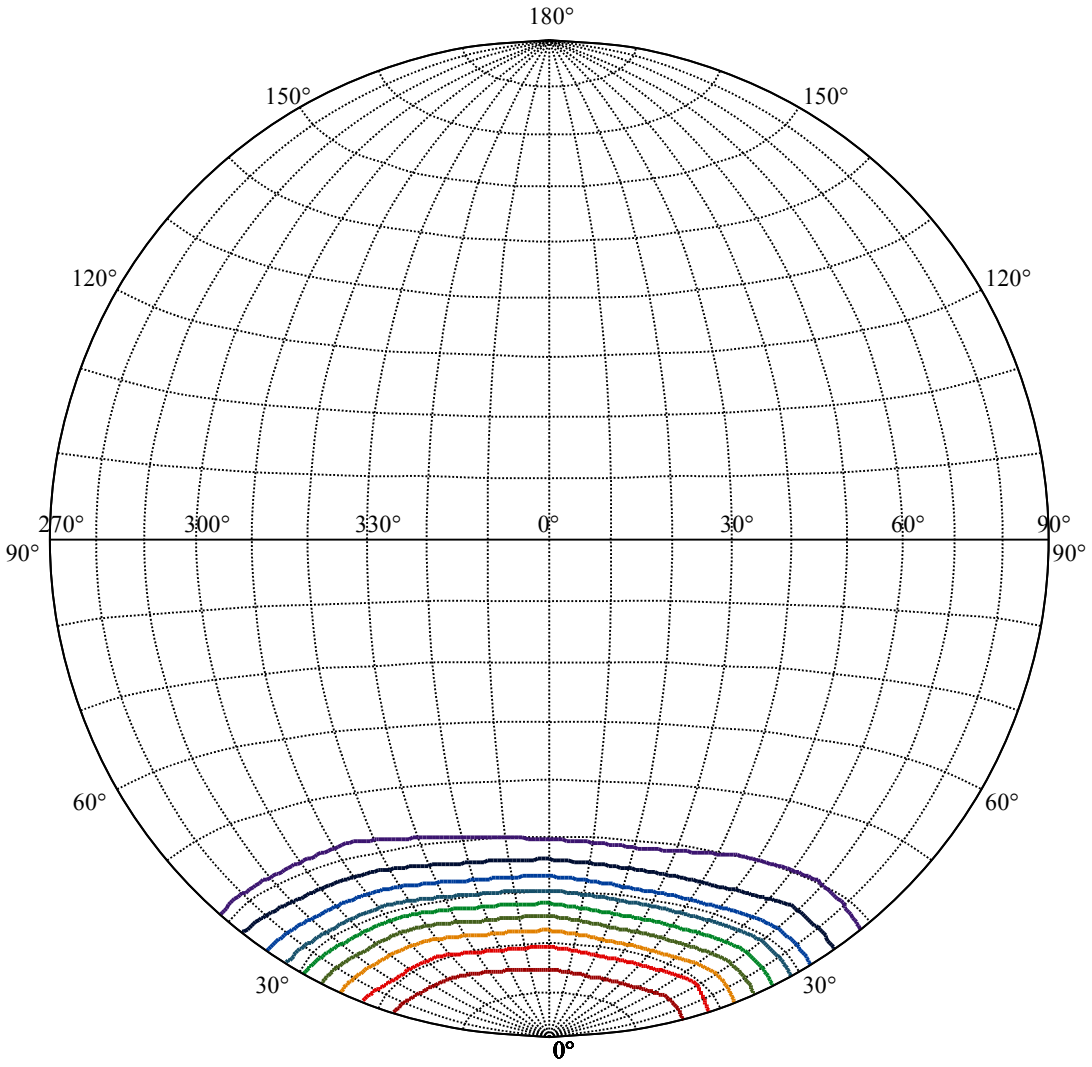


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/5/12
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:1536.25

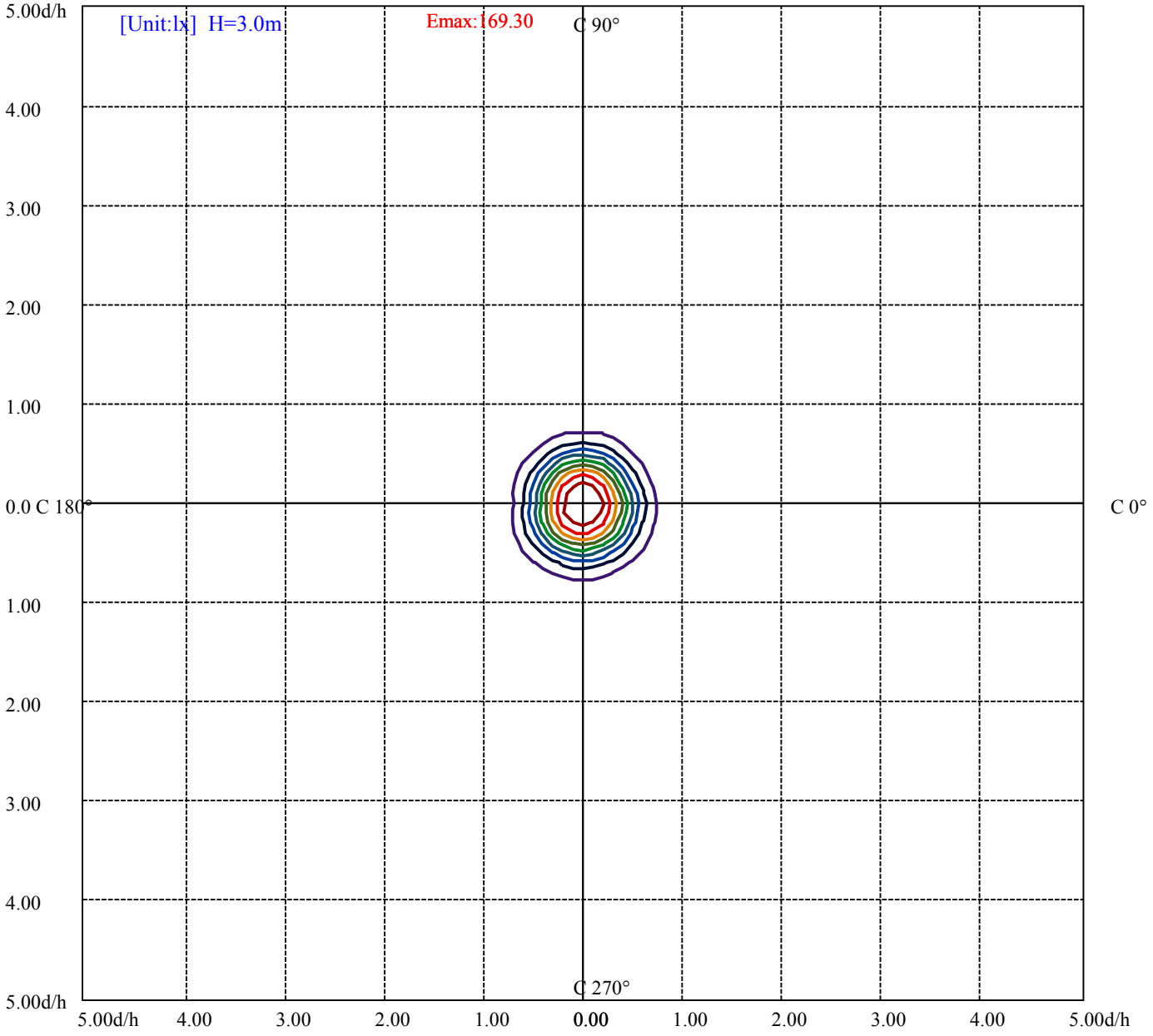
(10%Imax) 153.625
(20%Imax) 307.249
(30%Imax) 460.874
(40%Imax) 614.499
(50%Imax) 768.123
(60%Imax) 921.748
(70%Imax) 1075.37
(80%Imax) 1229
(90%Imax) 1382.62

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/5/12
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

ISO illuminance diagram



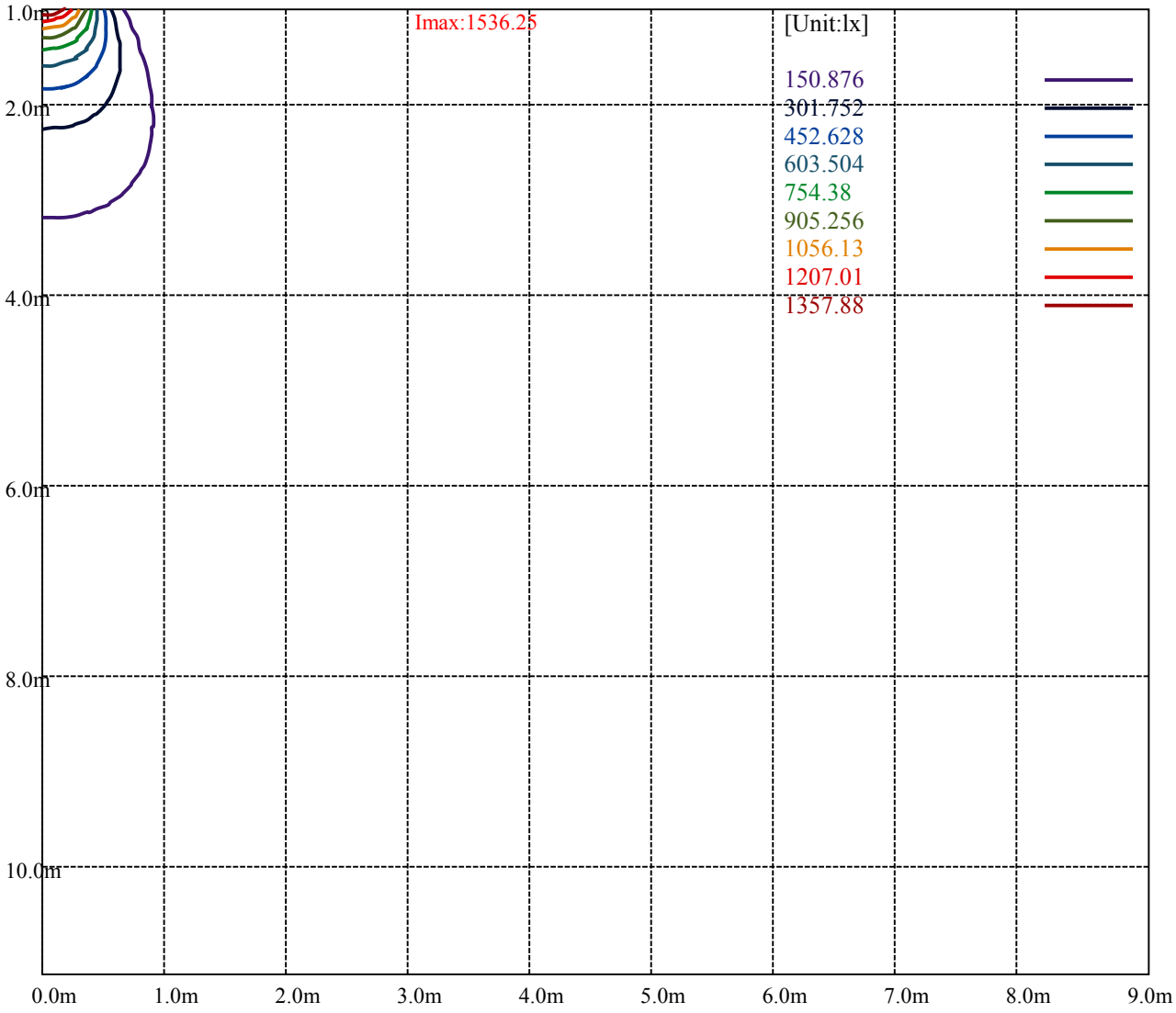
(10%Emax) 16.93
(20%Emax) 33.86
(30%Emax) 50.79
(40%Emax) 67.72
(50%Emax) 84.64999
(60%Emax) 101.58
(70%Emax) 118.51
(80%Emax) 135.44
(90%Emax) 152.37

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/5/12
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/5/12
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

Luminance Limitting Curve(no luminous side)

Luminance Table

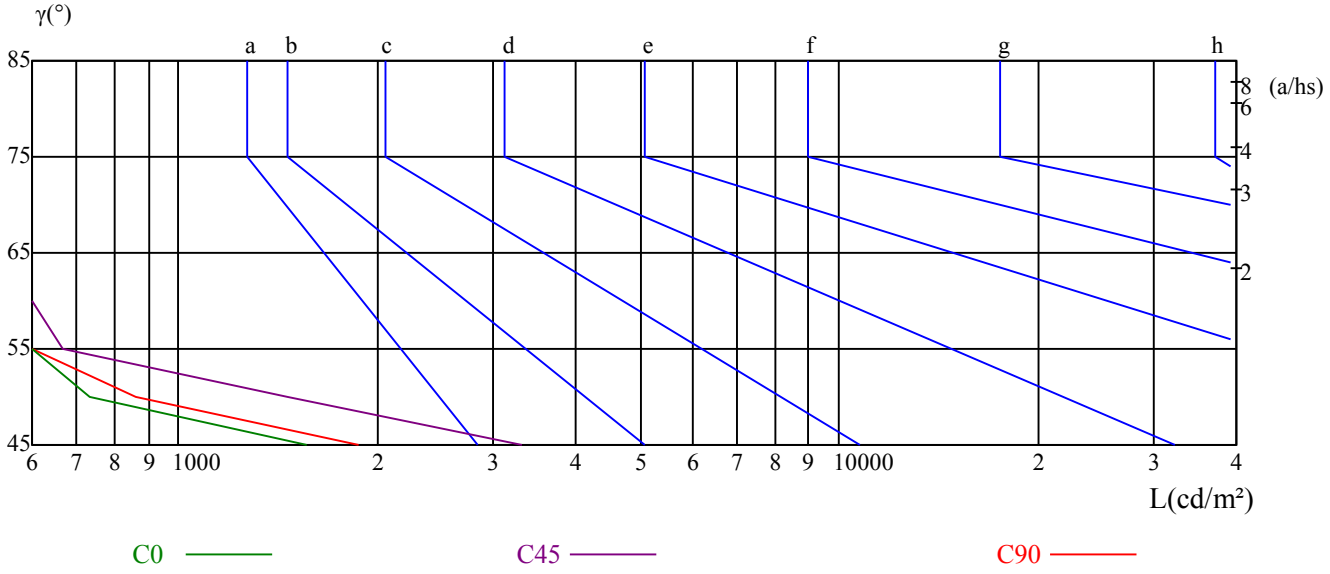
γ	45	50	55	60	65	70	75	80	85
C0	1569	732	411	298	276	277	293	327	375
C45	3307	1462	666	382	301	293	323	370	439
C90	1877	859	459	357	407	488	610	857	1461

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
507	441	544	754	698	715	2175	2060	2086

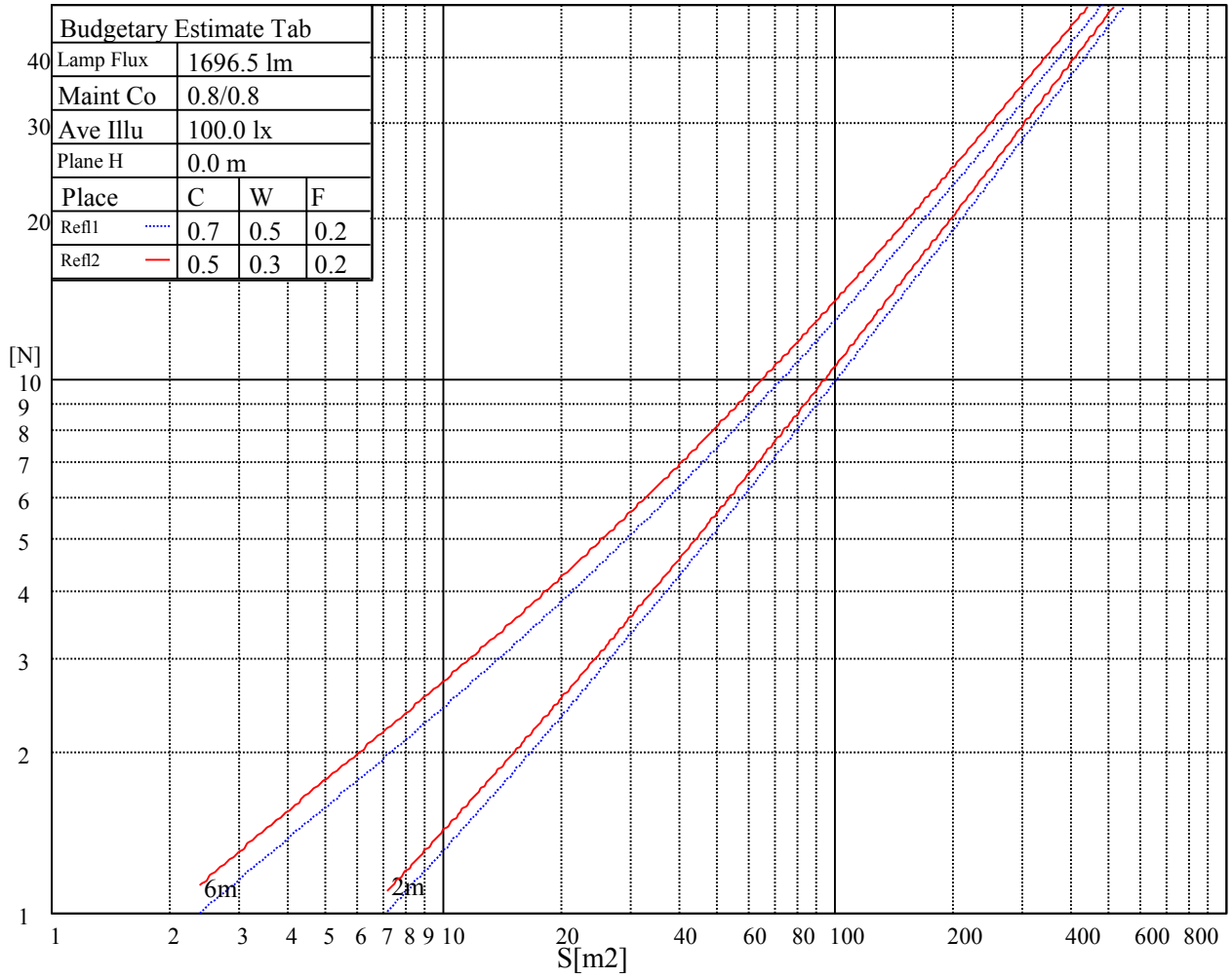
Glare Table

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 Limitting Curve



Budgetary Estimate Table

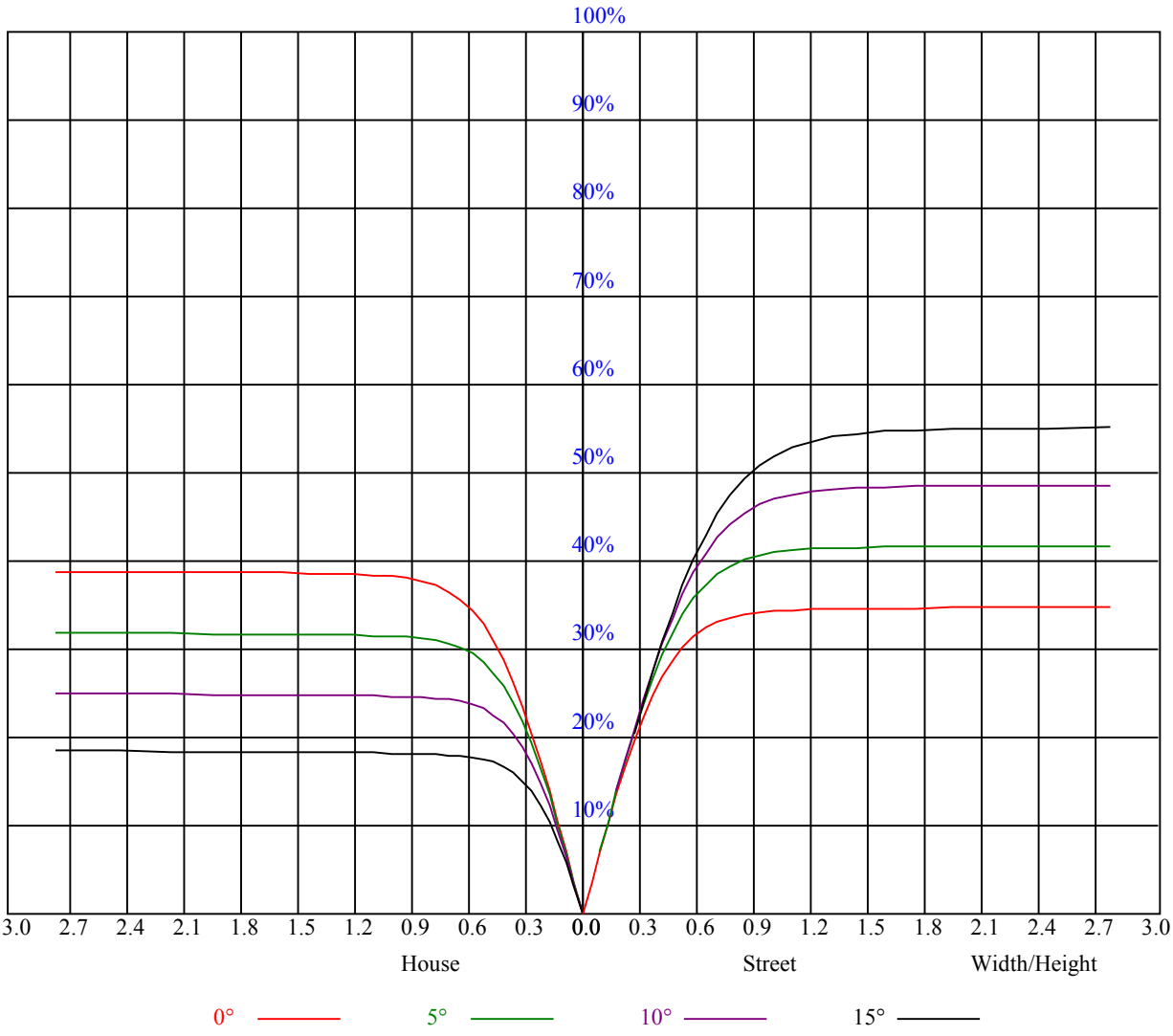


Equipment: GMS1980 Date: 2022/5/12 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.73

Utilization factor table for indoor luminaire

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	0.88	0.88	0.88	0.86	0.86	0.86	0.82	0.82	0.82	0.79	0.79	0.79	0.76	0.76	0.76	0.74
1	0.82	0.80	0.78	0.80	0.79	0.77	0.77	0.76	0.75	0.75	0.74	0.73	0.72	0.71	0.70	0.69
2	0.76	0.73	0.71	0.75	0.72	0.70	0.73	0.70	0.69	0.70	0.69	0.67	0.68	0.67	0.66	0.64
3	0.71	0.68	0.65	0.70	0.67	0.64	0.68	0.66	0.63	0.67	0.64	0.62	0.65	0.63	0.61	0.60
4	0.67	0.63	0.60	0.66	0.62	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.62	0.59	0.57	0.56
5	0.63	0.59	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.58	0.56	0.54	0.53
6	0.59	0.55	0.52	0.59	0.55	0.52	0.57	0.54	0.51	0.56	0.53	0.51	0.55	0.53	0.51	0.49
7	0.56	0.51	0.48	0.55	0.51	0.48	0.54	0.51	0.48	0.53	0.50	0.48	0.53	0.50	0.48	0.47
8	0.53	0.48	0.45	0.52	0.48	0.45	0.52	0.48	0.45	0.51	0.47	0.45	0.50	0.47	0.45	0.44
9	0.50	0.46	0.43	0.50	0.46	0.43	0.49	0.45	0.43	0.48	0.45	0.42	0.48	0.45	0.42	0.41
10	0.47	0.43	0.40	0.47	0.43	0.40	0.46	0.43	0.40	0.46	0.43	0.40	0.45	0.42	0.40	0.39

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/5/12
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

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	1508.76	1508.16	1506.97	1506.37	1505.18	1503.38	1500.99	1497.41	1492.03
22.5	1507.57	1506.37	1505.77	1505.18	1503.98	1502.19	1499.20	1494.42	1488.44
45.0	1523.70	1522.50	1520.71	1517.72	1515.33	1512.35	1508.16	1500.40	1491.43
67.5	1528.48	1527.88	1526.09	1524.30	1522.50	1519.52	1515.33	1509.96	1504.58
90.0	1536.25	1536.25	1535.65	1534.45	1532.66	1530.27	1526.69	1521.91	1516.53
112.5	1512.94	1513.54	1512.94	1512.35	1511.15	1508.76	1504.58	1500.99	1495.62
135.0	1515.33	1514.14	1511.75	1508.76	1504.58	1499.80	1494.42	1486.65	1477.09
157.5	1521.91	1521.91	1521.31	1520.71	1518.92	1517.13	1513.54	1508.76	1501.59
180.0	1508.76	1509.36	1509.36	1509.36	1508.16	1505.18	1500.99	1494.42	1484.26
202.5	1507.57	1508.76	1509.96	1510.55	1511.15	1510.55	1509.36	1508.16	1505.18
225.0	1523.70	1524.30	1524.89	1524.89	1524.89	1523.70	1523.10	1520.71	1517.13
247.5	1528.48	1529.08	1528.48	1527.28	1524.89	1522.50	1518.32	1514.14	1509.96
270.0	1536.25	1535.65	1534.45	1532.66	1531.47	1529.08	1527.28	1524.30	1520.71
292.5	1512.94	1512.35	1511.15	1509.36	1506.37	1504.58	1501.59	1496.81	1493.22
315.0	1515.33	1516.53	1516.53	1516.53	1515.93	1514.74	1512.94	1509.96	1505.77
337.5	1521.91	1521.91	1521.31	1520.71	1520.71	1518.92	1517.13	1512.94	1508.16
360.0	1508.76	1508.16	1506.97	1506.37	1505.18	1503.38	1500.99	1497.41	1492.03

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1484.86	1475.30	1461.56	1446.62	1426.30	1402.40	1377.30	1346.83	1312.77
22.5	1478.29	1466.34	1451.40	1431.08	1406.58	1380.89	1349.22	1313.97	1278.71
45.0	1478.88	1465.74	1451.40	1432.28	1411.96	1386.27	1356.99	1326.51	1291.86
67.5	1495.62	1486.65	1475.30	1460.36	1441.84	1422.12	1396.43	1370.13	1335.48
90.0	1508.16	1497.41	1486.05	1469.92	1452.59	1428.09	1398.82	1368.34	1333.09
112.5	1487.25	1478.29	1467.53	1453.19	1434.67	1415.55	1390.45	1360.57	1329.50
135.0	1466.93	1454.39	1440.04	1425.11	1407.18	1379.69	1354.60	1325.32	1290.07
157.5	1488.44	1475.90	1460.36	1443.03	1416.74	1391.65	1362.96	1324.12	1288.87
180.0	1471.71	1454.98	1433.47	1411.96	1387.46	1353.40	1323.53	1290.66	1250.03
202.5	1500.99	1492.03	1480.68	1466.93	1450.20	1425.11	1402.40	1376.71	1344.44
225.0	1512.94	1506.97	1499.80	1490.83	1476.49	1462.15	1444.23	1417.94	1392.24
247.5	1505.18	1498.01	1490.24	1481.87	1468.73	1456.18	1441.24	1420.33	1395.23
270.0	1515.93	1510.55	1503.98	1496.21	1484.86	1472.91	1457.97	1435.86	1414.35
292.5	1488.44	1480.68	1474.70	1466.93	1455.58	1440.64	1425.11	1403.60	1379.69
315.0	1498.60	1491.43	1480.08	1468.73	1453.19	1434.67	1416.14	1391.65	1363.56
337.5	1501.59	1489.64	1477.09	1461.56	1440.04	1414.35	1388.66	1356.39	1325.32
360.0	1484.86	1475.30	1461.56	1446.62	1426.30	1402.40	1377.30	1346.83	1312.77

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1279.31	1242.86	1195.66	1153.23	1107.82	1053.44	996.68	942.30	879.56
22.5	1233.30	1195.06	1144.87	1090.49	1037.91	973.37	911.23	853.27	794.71
45.0	1242.26	1188.84	1147.55	1084.10	1030.44	974.87	903.82	845.86	786.47
67.5	1294.25	1253.62	1202.83	1146.66	1087.50	1027.75	955.45	892.71	833.55
90.0	1282.30	1189.92	1183.65	1118.04	1062.29	1004.51	937.64	869.88	809.05
112.5	1287.08	1250.03	1196.85	1141.28	1090.49	1027.75	962.02	901.67	841.92
135.0	1241.07	1189.38	1150.36	1090.07	1038.15	983.89	920.55	855.36	796.03
157.5	1248.84	1205.81	1155.62	1110.81	1054.04	1000.26	941.71	874.78	815.63
180.0	1190.52	1159.27	1104.71	1058.10	1008.87	950.73	895.76	831.40	760.48
202.5	1307.99	1271.54	1190.34	1173.79	1128.31	1074.18	1022.91	961.78	898.80
225.0	1363.56	1331.89	1287.08	1247.04	1203.42	1143.67	1092.28	1037.91	974.57
247.5	1368.94	1334.88	1299.63	1254.21	1191.23	1147.02	1086.97	1016.10	964.71
270.0	1388.66	1355.20	1316.36	1277.52	1227.32	1174.14	1121.56	1058.82	999.67
292.5	1348.03	1311.58	1274.53	1187.35	1168.95	1117.56	1063.12	998.95	933.22
315.0	1334.28	1306.20	1257.20	1217.76	1180.12	1116.18	1065.39	1018.19	947.08
337.5	1286.48	1244.06	1189.98	1153.65	1103.93	1055.77	1003.73	935.19	879.74
360.0	1279.31	1242.86	1195.66	1153.23	1107.82	1053.44	996.68	942.30	879.56

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	813.83	754.08	687.16	629.20	567.06	506.70	455.91	402.14	350.75
22.5	720.62	665.05	611.87	541.36	481.01	437.99	381.22	332.82	302.95
45.0	712.61	661.35	594.90	523.02	475.27	418.39	360.97	325.24	288.79
67.5	765.43	700.30	638.76	573.03	510.89	460.10	409.31	362.10	319.08
90.0	741.23	681.36	614.68	550.20	495.59	438.53	385.76	342.15	299.30
112.5	767.23	707.47	644.14	581.99	519.85	465.48	411.10	359.71	319.08
135.0	729.58	670.91	605.66	542.44	488.78	432.43	380.81	338.92	300.98
157.5	751.09	686.56	625.61	573.03	500.73	450.54	403.33	348.96	307.13
180.0	710.70	653.46	573.99	524.81	471.39	402.20	359.71	312.03	262.49
202.5	840.90	781.75	708.49	649.57	592.45	525.05	473.36	423.23	369.33
225.0	909.44	849.09	780.37	719.42	653.10	588.57	531.80	471.45	414.69
247.5	904.84	819.33	764.90	703.59	636.07	570.40	514.05	454.12	399.51
270.0	930.95	860.44	797.70	735.56	660.87	603.50	546.74	479.22	429.03
292.5	874.36	814.01	738.49	678.73	620.24	549.61	495.23	443.67	390.60
315.0	880.76	827.58	751.09	691.94	633.38	564.07	509.09	457.11	396.16
337.5	822.62	755.87	688.11	628.84	564.37	504.31	453.23	398.85	354.45
360.0	813.83	754.08	687.16	629.20	567.06	506.70	455.91	402.14	350.75

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	306.53	279.82	216.66	173.52	140.30	115.62	84.73	67.76	56.11
22.5	249.47	215.59	178.24	144.06	117.83	95.19	72.66	58.86	48.10
45.0	245.41	221.74	198.08	174.96	154.52	138.81	122.85	108.39	96.32
67.5	304.74	245.58	218.16	187.80	160.62	138.33	116.10	96.74	81.80
90.0	248.39	210.03	175.49	137.91	112.45	91.12	73.38	55.81	45.11
112.5	304.74	240.03	202.92	169.34	142.69	119.33	94.35	77.68	63.76
135.0	259.57	230.89	205.67	178.72	160.02	143.94	128.05	113.59	101.46
157.5	302.95	230.29	195.45	168.26	141.20	119.80	97.94	79.47	65.91
180.0	217.68	179.74	142.03	110.60	87.78	67.82	54.26	42.66	34.24
202.5	319.44	276.18	233.34	193.48	160.44	128.23	103.85	81.32	63.64
225.0	368.08	326.25	302.35	246.42	218.82	192.40	169.40	150.46	131.58
247.5	355.65	311.61	277.31	243.07	211.70	186.25	162.29	134.32	114.43
270.0	383.02	334.02	305.93	240.86	201.73	162.71	129.54	104.87	81.74
292.5	342.50	304.32	264.47	226.22	194.67	162.05	135.82	110.30	88.43
315.0	351.35	311.31	279.23	235.07	209.14	184.04	163.01	146.69	130.80
337.5	309.34	270.14	238.29	204.41	174.12	148.31	124.29	98.83	81.56
360.0	306.53	279.82	216.66	173.52	140.30	115.62	84.73	67.76	56.11

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	42.36	35.19	30.29	24.98	21.33	19.00	16.31	14.46	12.97
22.5	37.76	31.67	27.01	22.95	19.72	17.39	15.18	13.62	11.95
45.0	83.06	72.18	60.83	50.37	42.36	34.96	28.86	24.44	20.85
67.5	70.21	54.61	45.35	38.72	30.95	25.51	22.05	18.16	15.48
90.0	36.81	29.76	24.56	21.03	17.93	15.42	13.56	11.71	10.16
112.5	49.59	40.69	33.64	27.61	23.00	19.78	16.85	14.76	12.79
135.0	88.55	77.86	66.39	55.81	47.26	38.60	31.61	26.59	22.53
157.5	53.36	43.26	36.09	30.35	24.86	21.27	18.40	15.60	13.50
180.0	28.62	24.26	20.08	17.45	15.30	13.03	11.47	10.16	8.96
202.5	51.27	41.53	32.33	26.89	22.77	18.64	16.13	14.10	12.01
225.0	114.67	100.62	86.40	74.69	62.56	51.93	43.74	36.75	29.64
247.5	96.44	76.78	63.58	52.64	42.48	34.36	28.62	24.14	20.20
270.0	63.64	51.15	40.45	33.16	26.95	22.29	19.12	16.97	14.22
292.5	71.94	58.32	44.99	36.93	30.65	24.68	21.09	18.28	15.77
315.0	116.34	104.33	91.66	80.85	68.78	57.18	47.80	40.03	32.33
337.5	66.92	52.22	43.02	35.79	28.86	24.50	21.09	17.75	15.83
360.0	42.36	35.19	30.29	24.98	21.33	19.00	16.31	14.46	12.97

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	11.29	10.16	9.20	8.19	7.59	7.23	6.93	6.75	6.57
22.5	10.58	9.56	8.54	7.77	7.23	6.99	6.75	6.57	6.39
45.0	17.27	15.00	13.09	11.35	9.98	8.96	8.01	7.23	6.75
67.5	13.68	11.47	10.04	8.60	7.29	6.45	5.92	5.38	5.20
90.0	8.54	7.41	6.45	5.98	5.38	5.20	5.08	5.02	4.96
112.5	10.99	9.50	8.07	6.93	6.27	5.74	5.38	5.20	5.14
135.0	18.40	15.77	13.62	11.65	10.04	8.78	7.59	6.57	5.92
157.5	11.89	10.40	9.14	8.25	7.53	7.05	6.81	6.69	6.63
180.0	7.89	7.11	6.63	6.27	6.09	5.98	5.86	5.74	5.68
202.5	10.58	9.32	8.07	7.35	6.57	6.09	5.92	5.86	5.74
225.0	25.04	21.33	17.57	15.06	12.97	11.11	9.68	8.60	7.77
247.5	17.09	14.82	12.79	11.05	9.80	8.60	7.77	6.87	6.27
270.0	12.61	11.23	9.62	8.60	7.77	6.81	6.27	5.86	5.38
292.5	13.62	12.07	10.58	9.38	8.31	7.41	6.69	6.21	5.74
315.0	27.31	23.18	18.94	16.31	14.16	12.13	10.58	9.38	8.37
337.5	13.80	11.89	10.76	9.68	8.60	7.95	7.47	7.11	6.99
360.0	11.29	10.16	9.20	8.19	7.59	7.23	6.93	6.75	6.57

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	6.33	6.15	5.98	5.86	5.74	5.62	5.56	5.50	5.44
22.5	6.27	6.09	6.04	5.98	6.04	6.09	6.15	6.15	6.09
45.0	6.39	6.09	5.80	5.56	5.38	5.20	5.08	5.08	5.02
67.5	5.08	5.02	5.02	4.96	4.96	4.96	4.96	4.96	4.90
90.0	4.96	4.96	4.96	4.96	4.96	4.90	4.90	4.90	4.84
112.5	5.08	5.08	5.08	5.02	5.02	4.96	4.96	4.90	4.90
135.0	5.56	5.38	5.20	5.08	5.02	5.02	4.96	4.96	4.96
157.5	6.57	6.57	6.57	6.57	6.51	6.45	6.39	6.15	5.98
180.0	5.62	5.50	5.50	5.44	5.38	5.32	5.32	5.26	5.26
202.5	5.68	5.68	5.68	5.68	5.68	5.74	5.86	5.92	5.98
225.0	7.23	6.93	6.75	6.69	6.63	6.45	6.15	5.80	5.32
247.5	5.86	5.44	5.08	5.02	5.02	5.02	4.96	4.90	4.96
270.0	5.08	5.02	5.02	5.02	5.02	4.96	4.96	4.96	4.90
292.5	5.38	5.20	5.14	5.08	5.08	5.08	5.02	5.02	4.96
315.0	7.71	7.23	6.87	6.51	6.04	5.56	5.32	5.20	5.20
337.5	6.87	6.81	6.75	6.69	6.69	6.63	6.63	6.63	6.63
360.0	6.33	6.15	5.98	5.86	5.74	5.62	5.56	5.50	5.44

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.38	5.32	5.26	5.26	5.20	5.20	5.20	5.20	5.20
22.5	6.09	6.04	5.92	5.74	5.62	5.38	5.20	5.02	5.02
45.0	5.02	4.96	4.96	4.96	4.90	4.90	4.90	4.90	4.90
67.5	4.90	4.90	4.90	4.84	4.90	4.84	4.90	4.84	4.84
90.0	4.84	4.84	4.84	4.78	4.84	4.78	4.78	4.78	4.78
112.5	4.90	4.90	4.90	4.90	4.90	4.84	4.84	4.84	4.78
135.0	4.96	4.96	4.96	4.90	4.90	4.90	4.90	4.90	4.90
157.5	5.62	5.38	5.26	5.14	5.08	5.08	5.02	4.96	4.96
180.0	5.26	5.20	5.20	5.20	5.20	5.14	5.08	5.08	5.08
202.5	6.04	6.09	6.09	6.15	6.15	6.04	5.86	5.62	5.32
225.0	5.08	5.08	5.02	4.96	4.96	4.90	4.90	4.90	4.90
247.5	4.90	4.90	4.90	4.84	4.84	4.90	4.90	4.84	4.84
270.0	4.90	4.96	4.90	4.90	4.84	4.84	4.84	4.84	4.84
292.5	4.96	4.90	4.90	4.84	4.90	4.90	4.90	4.84	4.84
315.0	5.08	5.08	5.02	5.02	5.02	4.96	4.96	4.96	4.96
337.5	6.45	6.27	6.09	5.80	5.38	5.14	5.14	5.08	5.02
360.0	5.38	5.32	5.26	5.26	5.20	5.20	5.20	5.20	5.20

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	5.14	5.08	5.02	5.08	5.14	5.14	5.08	4.90	4.90
22.5	5.02	4.96	4.90	4.90	4.90	4.90	4.84	4.84	4.84
45.0	4.84	4.84	4.84	4.84	4.84	4.78	4.84	4.78	4.78
67.5	4.84	4.78	4.84	4.78	4.78	4.78	4.78	4.78	4.72
90.0	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.72	4.78
112.5	4.84	4.84	4.84	4.78	4.78	4.78	4.78	4.78	4.78
135.0	4.84	4.90	4.84	4.84	4.84	4.84	4.78	4.84	4.78
157.5	4.96	4.96	4.90	4.96	4.84	4.90	4.84	4.84	4.84
180.0	5.02	4.96	5.02	5.02	5.02	4.84	4.84	4.78	4.78
202.5	5.08	4.96	4.96	4.90	4.90	4.84	4.84	4.84	4.84
225.0	4.90	4.90	4.90	4.90	4.90	4.84	4.90	4.84	4.84
247.5	4.84	4.84	4.84	4.84	4.84	4.84	4.78	4.78	4.78
270.0	4.84	4.78	4.78	4.84	4.84	4.84	4.78	4.72	4.78
292.5	4.84	4.84	4.84	4.84	4.84	4.78	4.78	4.78	4.78
315.0	4.96	4.90	4.90	4.90	4.90	4.84	4.90	4.90	4.84
337.5	4.96	4.96	4.96	4.96	4.90	4.90	4.90	4.90	4.84
360.0	5.14	5.08	5.02	5.08	5.14	5.14	5.08	4.90	4.90

C/γ(°)	90.0
0.0	4.84
22.5	4.78
45.0	4.78
67.5	4.72
90.0	4.72
112.5	4.78
135.0	4.84
157.5	4.84
180.0	4.78
202.5	4.78
225.0	4.84
247.5	4.78
270.0	4.78
292.5	4.78
315.0	4.84
337.5	4.84
360.0	4.84