

Report No.:

Test Time: 2024/8/26 9:18:27

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-28.2W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

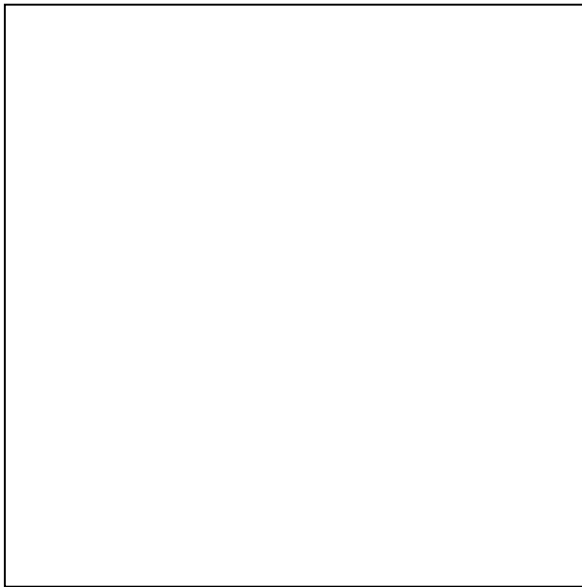
Voltage(V): 219.70 V
Current(A): 0.1310 A
Power(W): 28.24 W
Power Factor: 0.9750
Lamp Luminous Flux: 2677.53

Photometric Results

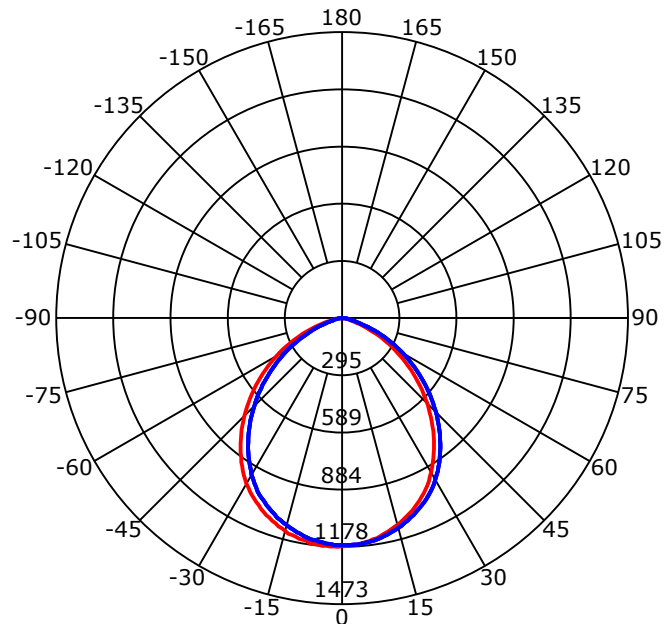
CIE Class: Direct
Luminaire Luminous Flux: 2677.525 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 94.81 lm/W
Beam Angle(50%) C0-180,C90-270: 97.1,97.2
Field Angle(10%) C0-180,C90-270: 142.8,142.8
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1178.24 cd
Max.Intensity Angle: C=180 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1175.26 cd
Effective Luminous Flux: 2595.35 lm
ERP(ϕ use)(120deg): 2340.11 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 97.1 deg,97.2 deg

C0-180 — C90-270 —

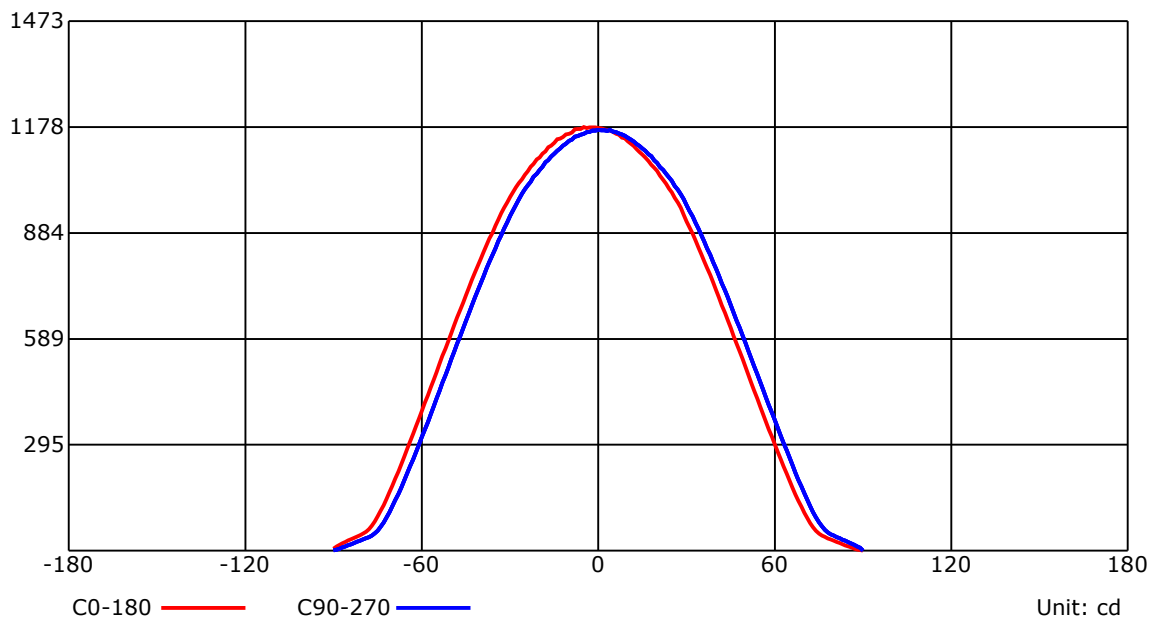
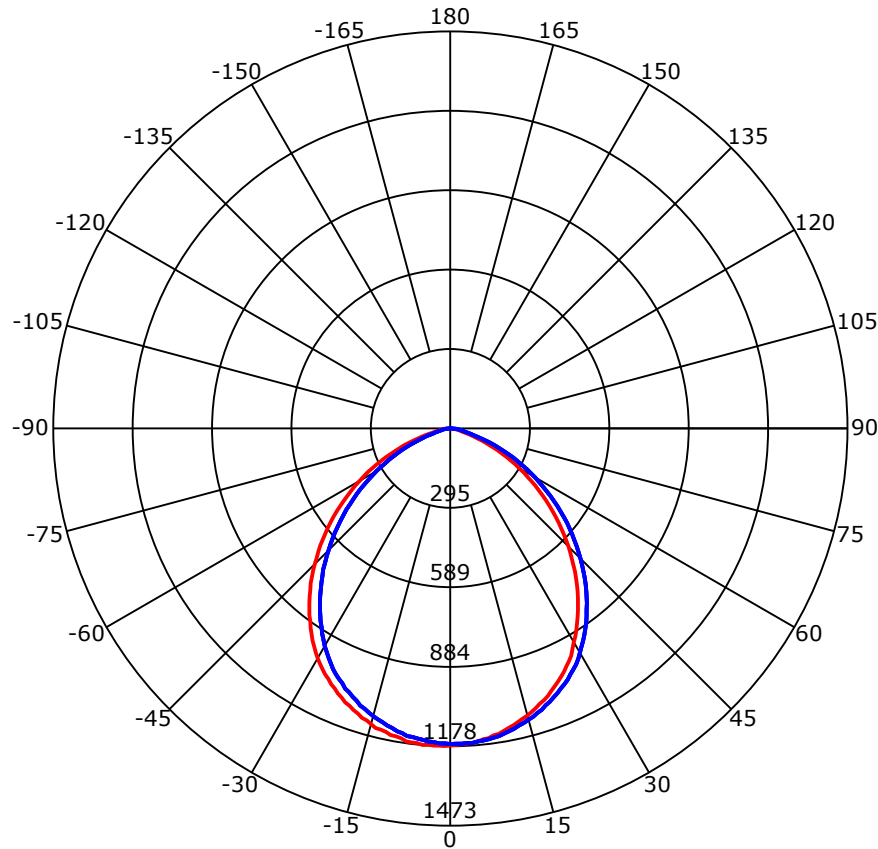
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/26 9:18:27

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

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Luminous Intensity Distribution Curve



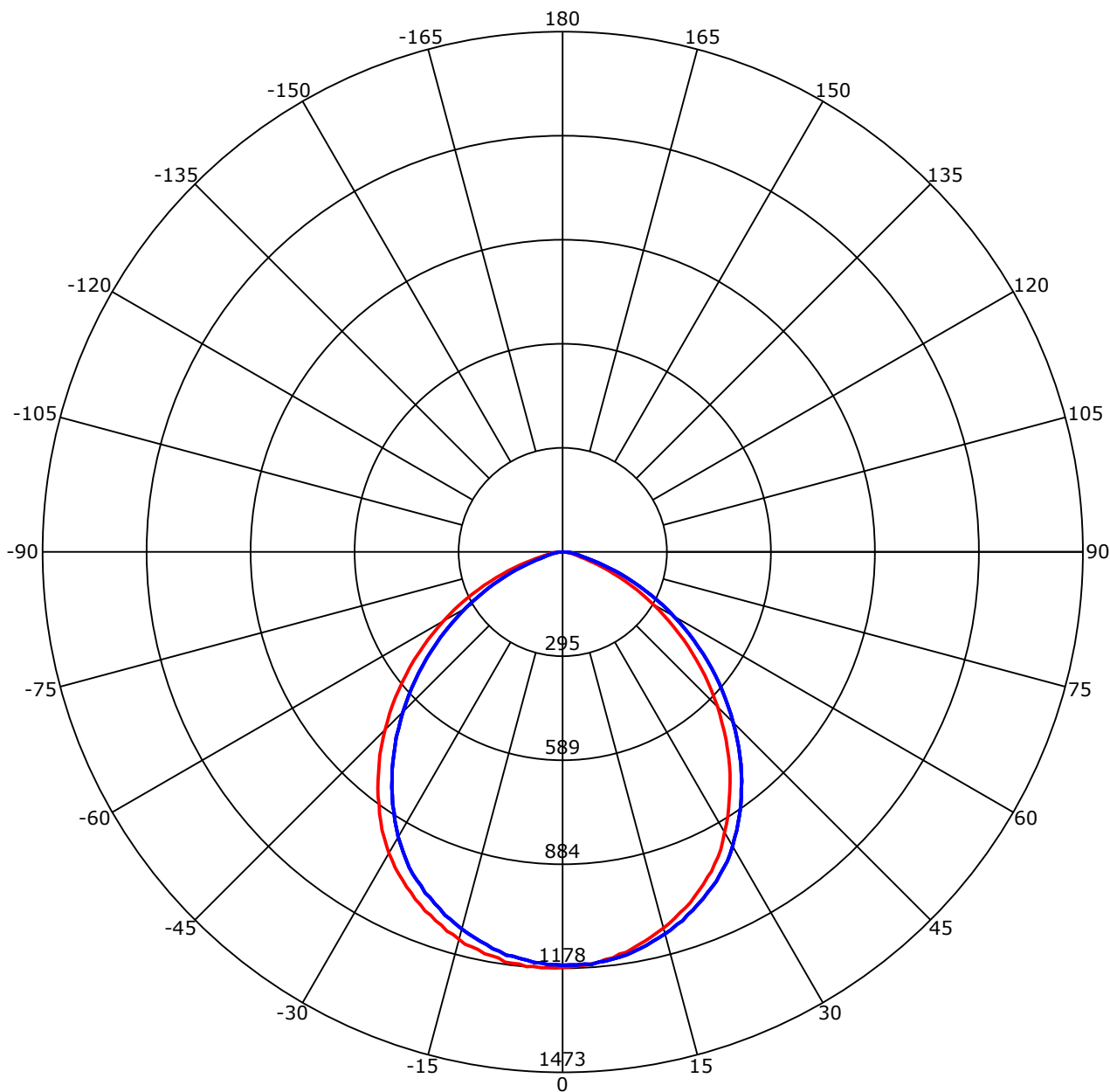
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

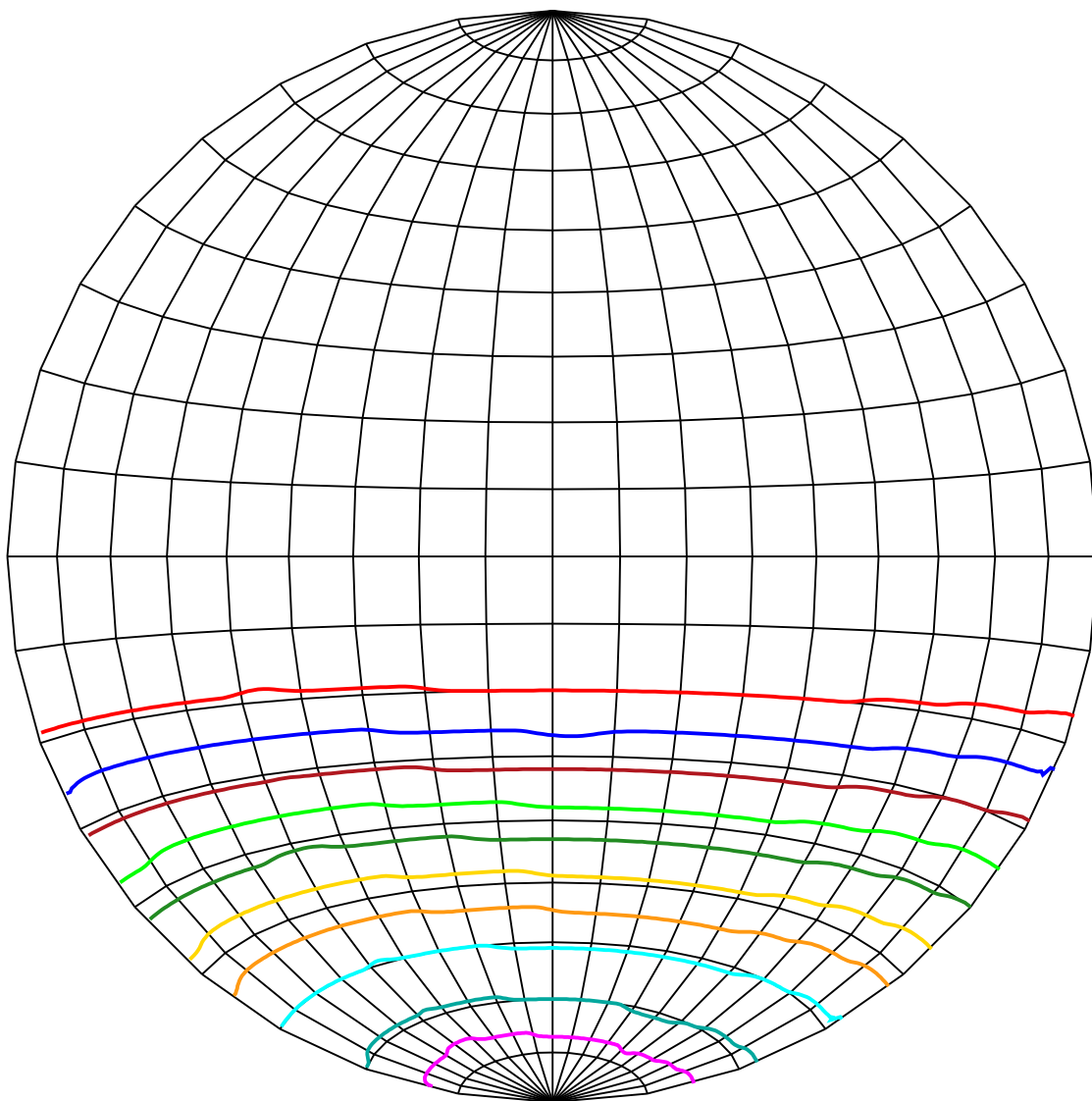
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1178.236 cd

1119.324(95%Imax)	589.118(50%Imax)
1060.412(90%Imax)	471.294(40%Imax)
942.589(80%Imax)	353.471(30%Imax)
824.765(70%Imax)	235.647(20%Imax)
706.942(60%Imax)	117.824(10%Imax)

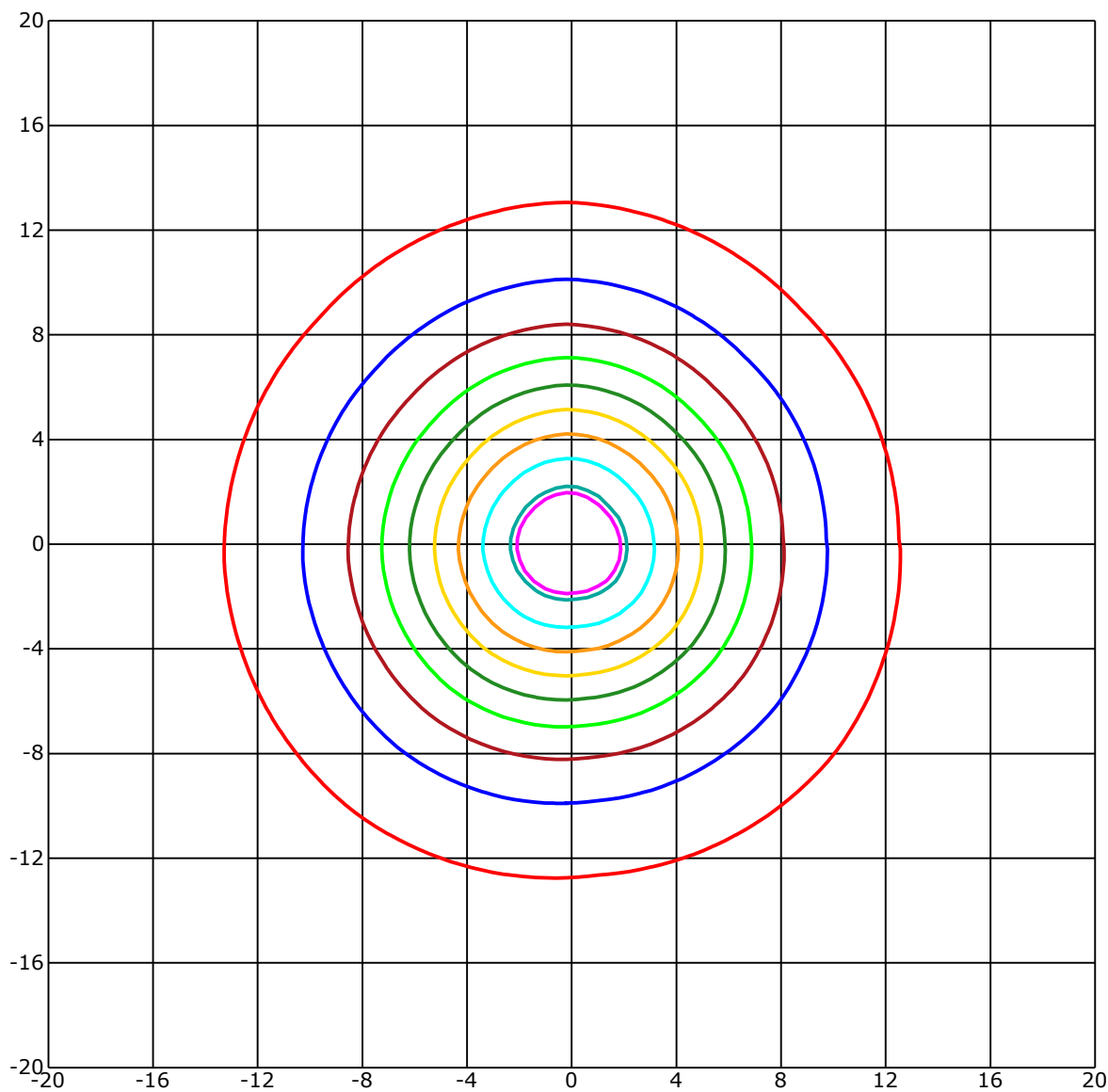
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ISOLX DIAGRAM



Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

10.83(92%Emax)	5.886(50%Emax)
10.595(90%Emax)	4.709(40%Emax)
9.418(80%Emax)	3.532(30%Emax)
8.24(70%Emax)	2.354(20%Emax)
7.063(60%Emax)	1.177(10%Emax)

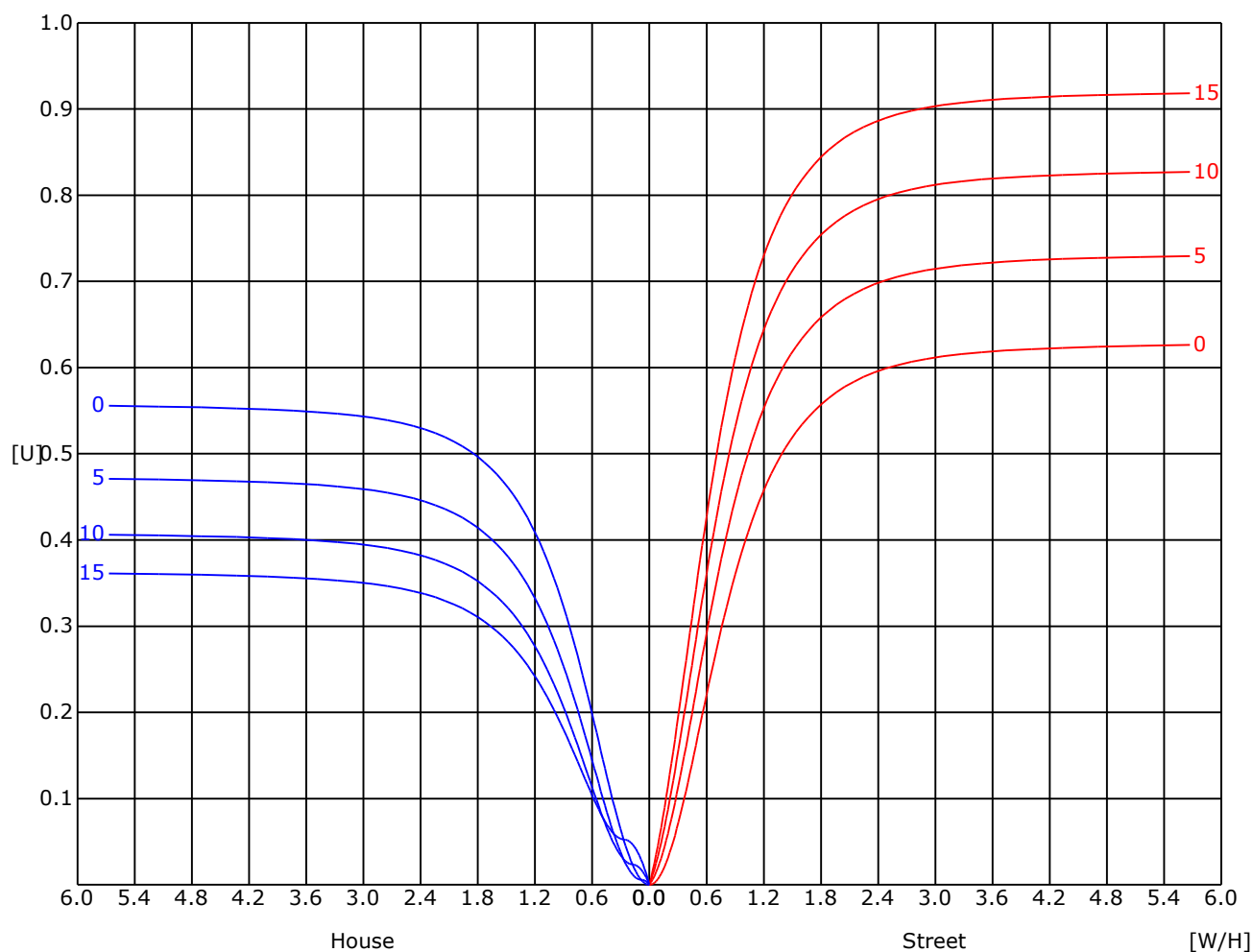
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UTILIZATION FACTOR DIAGRAM (ROAD)



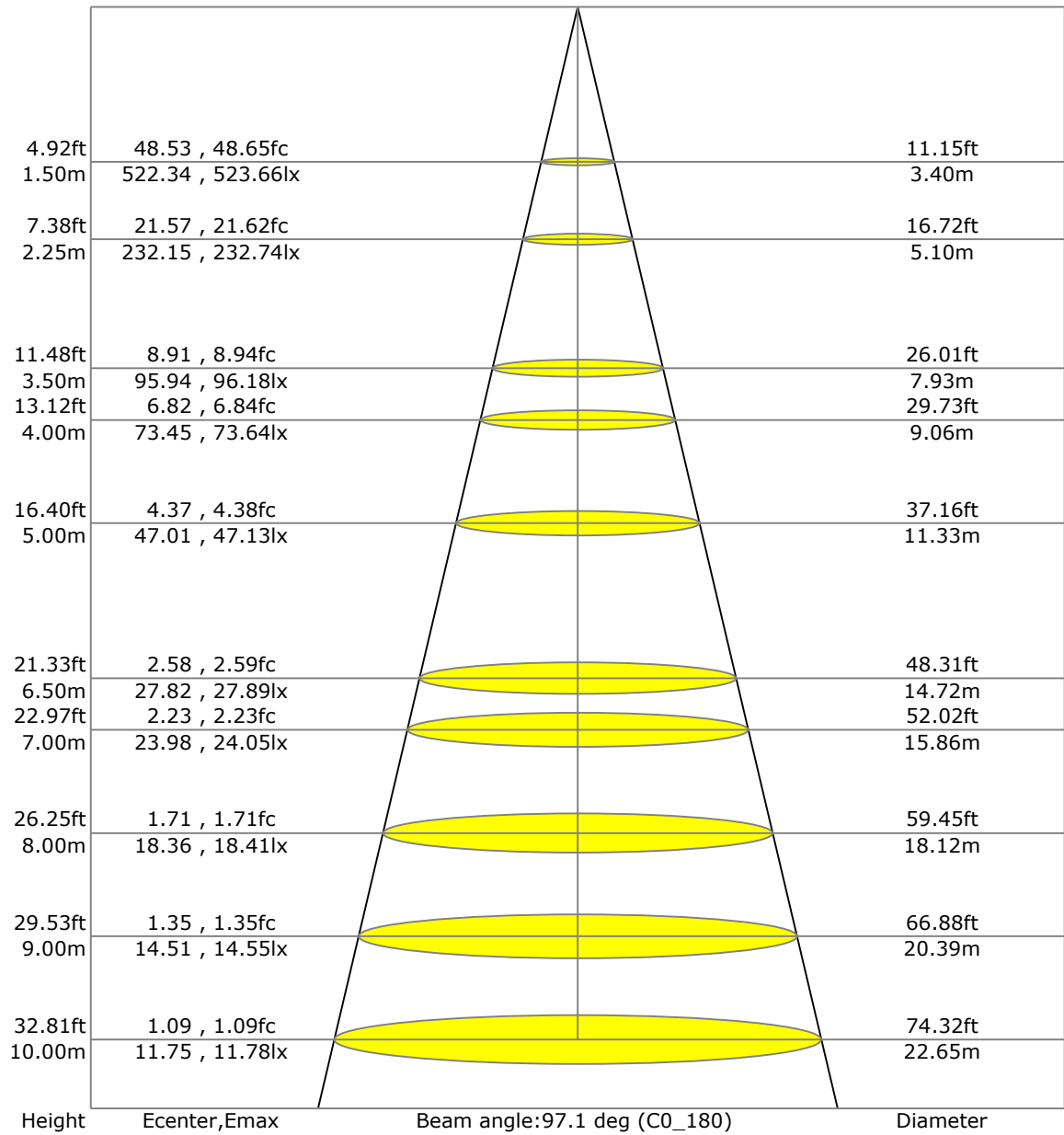
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LX-DISTANCE DIAGRAM



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UGR(Unified Glare Rating) TABLE

RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		50	30	50	30	30	50	30	50	30	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H	2H	16.97	17.04	17.17	17.23	17.47	17.25	17.32	17.45	17.51	17.75
	3H	17.02	17.09	17.23	17.28	17.53	17.27	17.34	17.47	17.53	17.78
	4H	17.00	17.07	17.21	17.26	17.51	17.25	17.31	17.46	17.51	17.76
	6H	16.98	17.04	17.19	17.24	17.49	17.22	17.28	17.44	17.49	17.74
	8H	16.96	17.02	17.18	17.23	17.48	17.21	17.27	17.43	17.47	17.73
	12H	16.95	17.01	17.17	17.21	17.47	17.19	17.25	17.41	17.46	17.71
4H	2H	17.79	17.86	18.00	18.05	18.30	18.36	18.42	18.57	18.62	18.87
	3H	17.87	17.93	18.09	18.14	18.39	18.41	18.47	18.63	18.68	18.93
	4H	17.86	17.92	18.09	18.13	18.39	18.39	18.45	18.62	18.66	18.92
	6H	17.83	17.89	18.07	18.11	18.37	18.36	18.42	18.60	18.64	18.90
	8H	17.82	17.87	18.06	18.10	18.36	18.35	18.40	18.59	18.63	18.89
	12H	17.80	17.85	18.05	18.08	18.35	18.33	18.38	18.58	18.61	18.88
8H	4H	17.82	17.89	18.04	18.09	18.34	18.44	18.50	18.66	18.71	18.96
	6H	17.91	17.95	18.16	18.19	18.47	18.50	18.54	18.75	18.78	19.06
	8H	17.89	17.94	18.16	18.18	18.46	18.48	18.52	18.74	18.77	19.05
	12H	17.88	17.92	18.15	18.17	18.45	18.46	18.50	18.73	18.75	19.04
12H	4H	17.93	17.98	18.18	18.21	18.48	18.55	18.60	18.80	18.83	19.10
	6H	17.92	17.96	18.18	18.21	18.48	18.54	18.59	18.80	18.83	19.11

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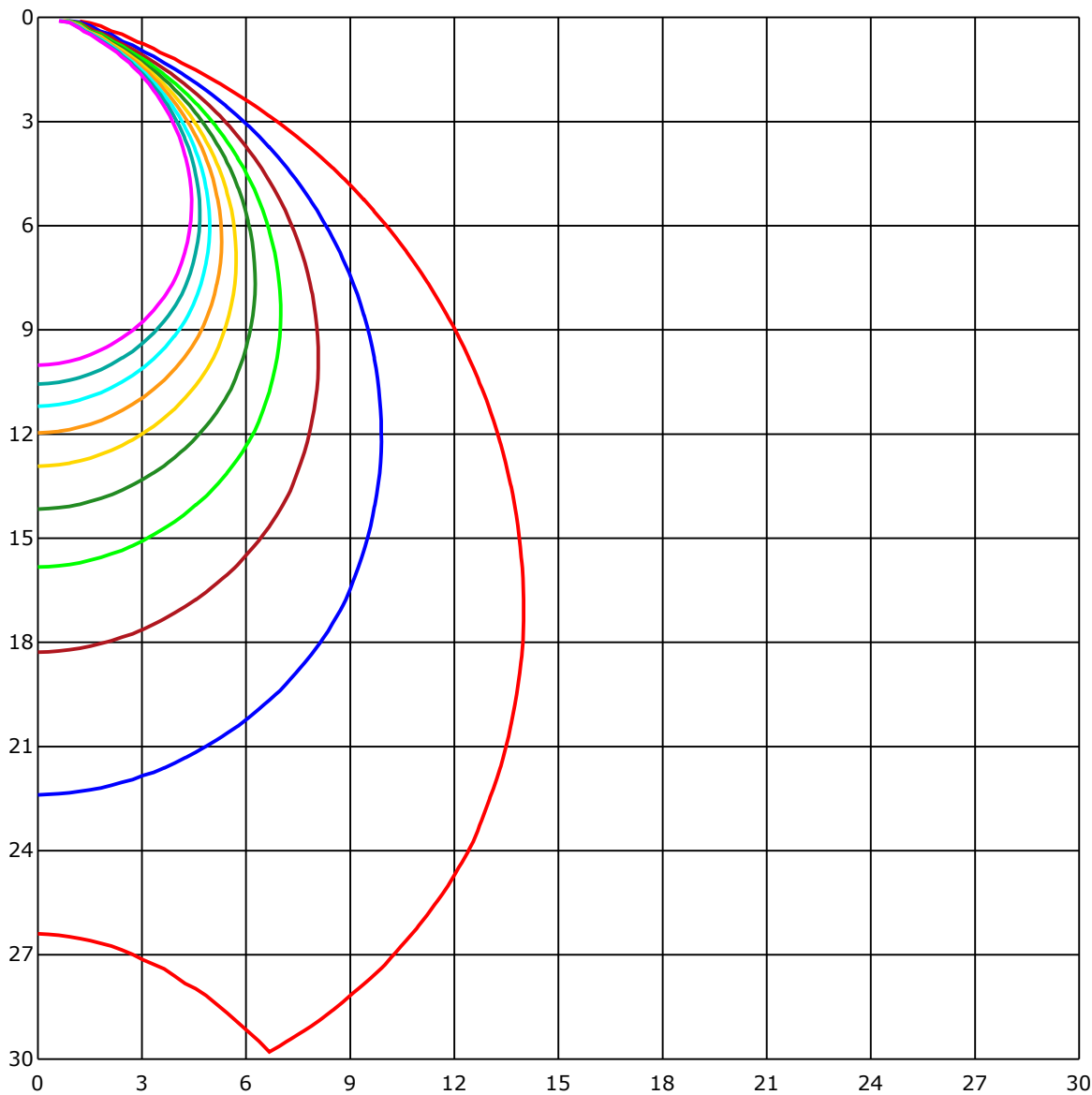
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Humidity: 60
Test Distance: 6.71 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

11.725
10.552
9.38
8.207
7.035

5.862
4.69
3.517
2.345
1.172

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1175.26	1170.0	1169.86	1175.4	1175.26	1170.0	1169.86	1175.4	1175.26	
G1	1174.41	1164.55	1169.23	1176.08	1177.74	1166.48	1168.29	1173.19	1174.41	
G2	1172.47	1163.51	1169.73	1172.97	1177.11	1170.09	1168.56	1172.92	1172.47	
G3	1170.72	1162.84	1168.02	1172.61	1177.83	1171.53	1164.82	1170.49	1170.72	
G4	1168.65	1157.44	1170.04	1171.62	1175.26	1168.11	1164.19	1167.57	1168.65	
G5	1165.18	1156.44	1165.49	1169.37	1178.24	1167.52	1159.73	1168.96	1165.18	
G6	1159.42	1151.63	1163.87	1165.72	1172.97	1165.45	1156.98	1161.71	1159.42	
G7	1157.3	1150.55	1160.86	1161.62	1172.92	1161.4	1152.93	1160.5	1157.3	
G8	1149.15	1143.16	1158.16	1159.51	1172.38	1159.96	1151.9	1154.73	1149.15	
G9	1147.03	1137.08	1154.28	1154.42	1163.11	1154.01	1143.79	1150.28	1147.03	
G10	1139.34	1132.18	1148.88	1154.64	1160.0	1150.82	1140.06	1145.01	1139.34	
G11	1132.0	1123.49	1143.93	1145.23	1158.07	1146.31	1131.91	1142.62	1132.0	
G12	1125.33	1118.49	1138.43	1138.71	1150.64	1143.84	1126.28	1132.58	1125.33	
G13	1117.0	1111.15	1130.87	1134.16	1146.22	1134.38	1118.62	1129.34	1117.0	
G14	1109.26	1104.17	1125.42	1124.16	1144.47	1130.15	1112.14	1121.6	1109.26	
G15	1101.83	1094.45	1118.71	1121.06	1134.83	1122.86	1104.4	1112.73	1101.83	
G16	1093.95	1087.51	1112.19	1109.44	1126.32	1118.58	1096.29	1107.28	1093.95	
G17	1084.18	1077.65	1103.05	1104.49	1121.78	1108.0	1086.97	1101.25	1084.18	
G18	1073.51	1068.15	1097.19	1095.89	1110.79	1102.82	1080.76	1090.03	1073.51	
G19	1065.5	1057.39	1086.07	1086.16	1104.13	1092.74	1067.88	1077.61	1065.5	
G20	1056.0	1051.13	1078.37	1075.9	1093.86	1086.34	1058.83	1068.69	1056.0	
G21	1043.12	1035.96	1067.43	1066.17	1087.92	1074.14	1047.89	1060.9	1043.12	
G22	1031.73	1027.81	1059.06	1054.51	1076.17	1064.64	1040.19	1048.21	1031.73	
G23	1020.83	1013.49	1048.03	1046.0	1067.75	1057.66	1026.05	1037.99	1020.83	
G24	1007.55	1003.05	1038.71	1033.35	1055.01	1045.78	1016.1	1025.24	1007.55	
G25	996.74	992.69	1028.31	1023.22	1045.78	1034.29	1005.43	1015.79	996.74	
G26	981.21	977.97	1014.8	1009.8	1033.21	1026.14	992.92	1001.65	981.21	
G27	968.33	961.31	1003.72	998.59	1022.5	1013.27	977.07	991.21	968.33	
G28	953.75	946.5	991.61	984.77	1011.33	1000.53	962.17	974.86	953.75	
G29	933.98	933.26	977.65	970.09	997.24	985.76	946.72	962.48	933.98	
G30	916.02	913.49	961.17	956.45	984.5	974.37	931.55	943.66	916.02	
G31	899.22	896.2	944.56	936.14	969.14	957.93	913.54	929.84	899.22	
G32	881.57	879.95	929.57	920.34	953.52	943.3	896.38	910.52	881.57	
G33	862.75	860.77	912.37	903.86	938.8	924.3	877.47	893.14	862.75	
G34	843.26	842.81	895.89	884.95	920.88	909.49	861.67	874.5	843.26	
G35	824.8	822.41	878.11	871.04	904.22	891.39	841.23	856.0	824.8	
G36	805.39	805.8	860.1	848.97	884.54	874.77	823.04	837.22	805.39	

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Test Speed: High

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.71 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	786.84	784.5	840.42	831.91	868.52	855.32	803.09	820.16	786.84	
G38	767.12	764.64	822.91	812.19	850.01	837.13	784.36	800.35	767.12	
G39	746.0	745.96	802.51	792.87	831.1	817.14	763.74	781.39	746.0	
G40	724.89	724.21	784.64	773.06	811.02	799.9	743.57	759.92	724.89	
G41	704.81	704.58	764.82	752.76	792.56	779.1	723.81	739.66	704.81	
G42	682.61	684.73	744.2	731.82	773.6	760.19	704.54	718.4	682.61	
G43	661.45	662.26	723.85	711.16	752.26	738.31	681.17	699.22	661.45	
G44	640.47	643.26	704.18	691.03	731.51	718.85	660.05	676.4	640.47	
G45	620.25	620.75	682.84	671.22	710.93	700.26	639.66	657.71	620.25	
G46	596.79	600.53	661.54	648.8	689.27	678.69	617.82	635.38	596.79	
G47	576.13	578.65	640.24	629.26	670.14	656.41	596.84	615.16	576.13	
G48	554.2	556.99	619.71	607.06	648.71	636.37	575.81	592.47	554.2	
G49	533.22	535.92	598.19	585.49	627.23	613.32	553.26	572.57	533.22	
G50	511.07	513.86	577.79	563.84	604.85	593.64	532.91	551.23	511.07	
G51	488.74	492.16	556.32	544.84	583.87	571.13	509.81	527.5	488.74	
G52	467.08	471.36	534.44	521.56	562.22	551.37	488.29	507.06	467.08	
G53	445.42	449.88	512.82	501.39	541.41	528.0	466.4	486.31	445.42	
G54	422.87	429.21	491.17	477.12	519.67	508.14	444.07	461.77	422.87	
G55	400.94	406.61	469.47	455.33	496.53	485.9	423.45	440.29	400.94	
G56	379.73	386.94	448.03	433.13	475.0	463.66	401.07	418.36	379.73	
G57	358.62	364.15	425.7	413.14	454.11	441.15	379.87	397.11	358.62	
G58	336.92	344.16	404.59	391.57	431.96	419.35	357.63	375.46	336.92	
G59	316.25	322.78	383.56	369.96	410.75	397.88	336.19	353.8	316.25	
G60	295.09	303.01	362.62	348.13	388.65	377.03	316.29	331.78	295.09	
G61	274.6	281.13	341.24	327.19	367.44	355.2	295.31	312.42	274.6	
G62	254.66	260.6	320.08	305.71	346.96	334.12	274.15	291.89	254.66	
G63	234.76	240.02	299.37	286.04	325.3	313.23	253.94	271.0	234.76	
G64	214.0	220.39	278.61	265.37	303.19	291.8	234.35	250.56	214.0	
G65	194.46	200.54	258.53	244.66	282.84	271.32	214.95	230.43	194.46	
G66	174.83	181.67	237.95	224.4	261.36	251.19	195.4	211.16	174.83	
G67	156.5	162.85	216.97	204.81	241.01	230.12	175.77	190.95	156.5	
G68	138.76	145.29	197.43	185.45	219.94	210.17	158.26	171.36	138.76	
G69	122.29	127.96	178.43	167.08	200.58	190.95	140.84	153.58	122.29	
G70	105.49	111.57	159.52	148.8	180.91	172.49	123.64	135.79	105.49	
G71	90.72	95.9	141.47	131.29	162.9	153.58	107.34	119.13	90.72	
G72	77.13	81.76	124.0	114.36	144.12	136.42	92.48	103.06	77.13	
G73	64.92	68.98	107.47	98.92	126.97	119.22	78.25	89.01	64.92	

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Test Distance: 6.71 m
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[illegible]

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