

Report No.:

Test Time: 2024/9/12 9:49:16

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-34.7W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

Voltage(V): 219.80 V
Current(A): 0.1620 A
Power(W): 34.71 W
Power Factor: 0.9700
Lamp Luminous Flux: 3073.79

Photometric Results

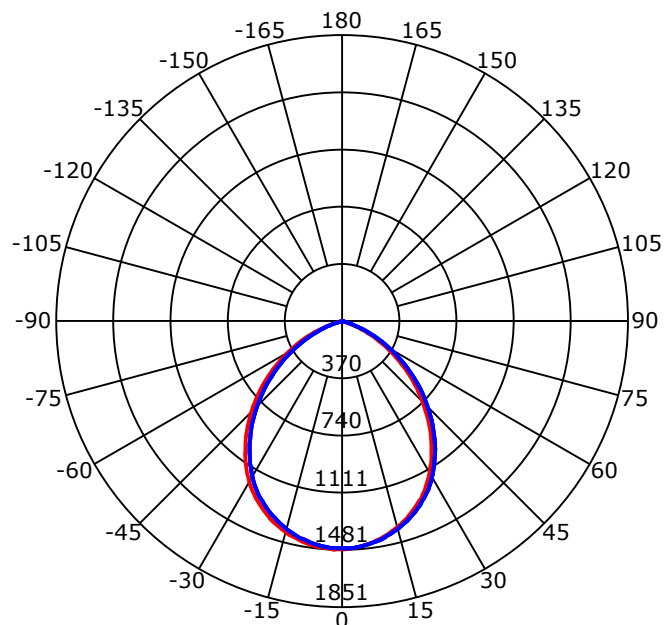
CIE Class: Direct
Luminaire Luminous Flux: 3073.79 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 88.56 lm/W
Beam Angle(50%) C0-180,C90-270: 93.1,93.1
Field Angle(10%) C0-180,C90-270: 136.5,136.3
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1480.70 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1478.66 cd
Effective Luminous Flux: 3011.23 lm
ERP(ϕ use)(120deg): 2808.82 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 93.1 deg,93.1 deg

C0-180 — C90-270 —

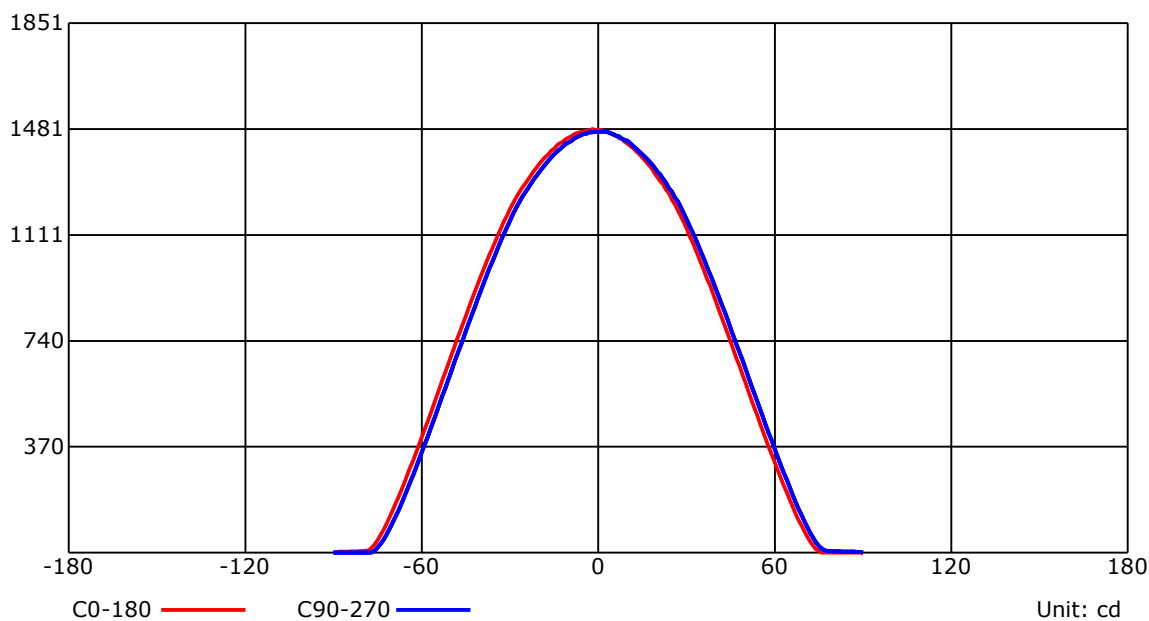
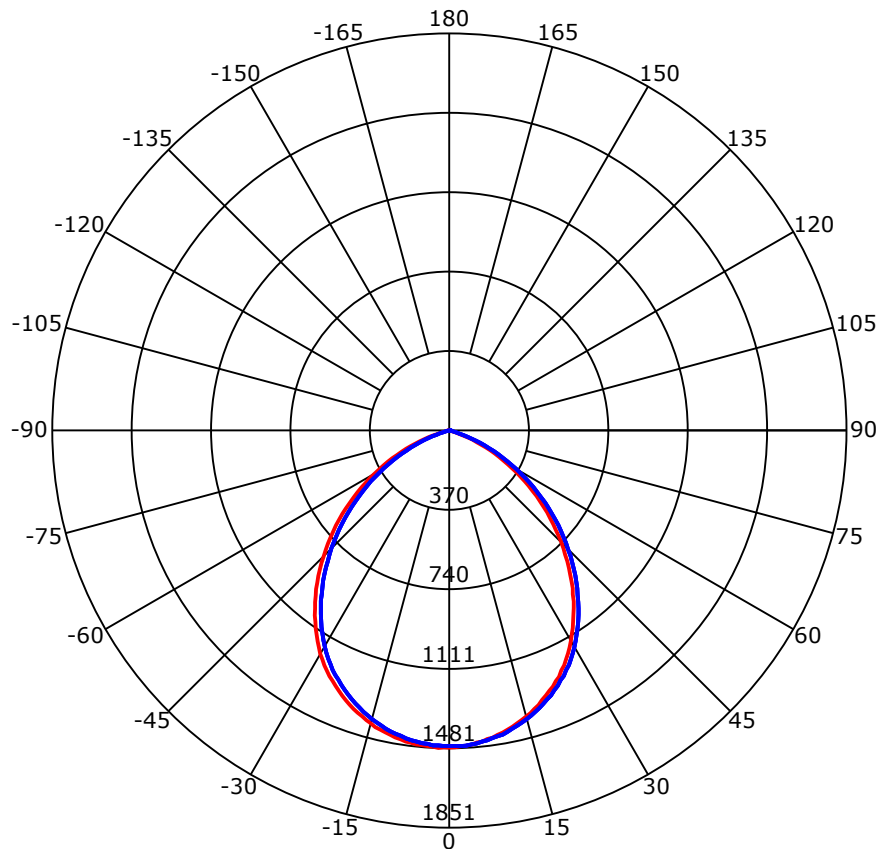
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:49:16

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



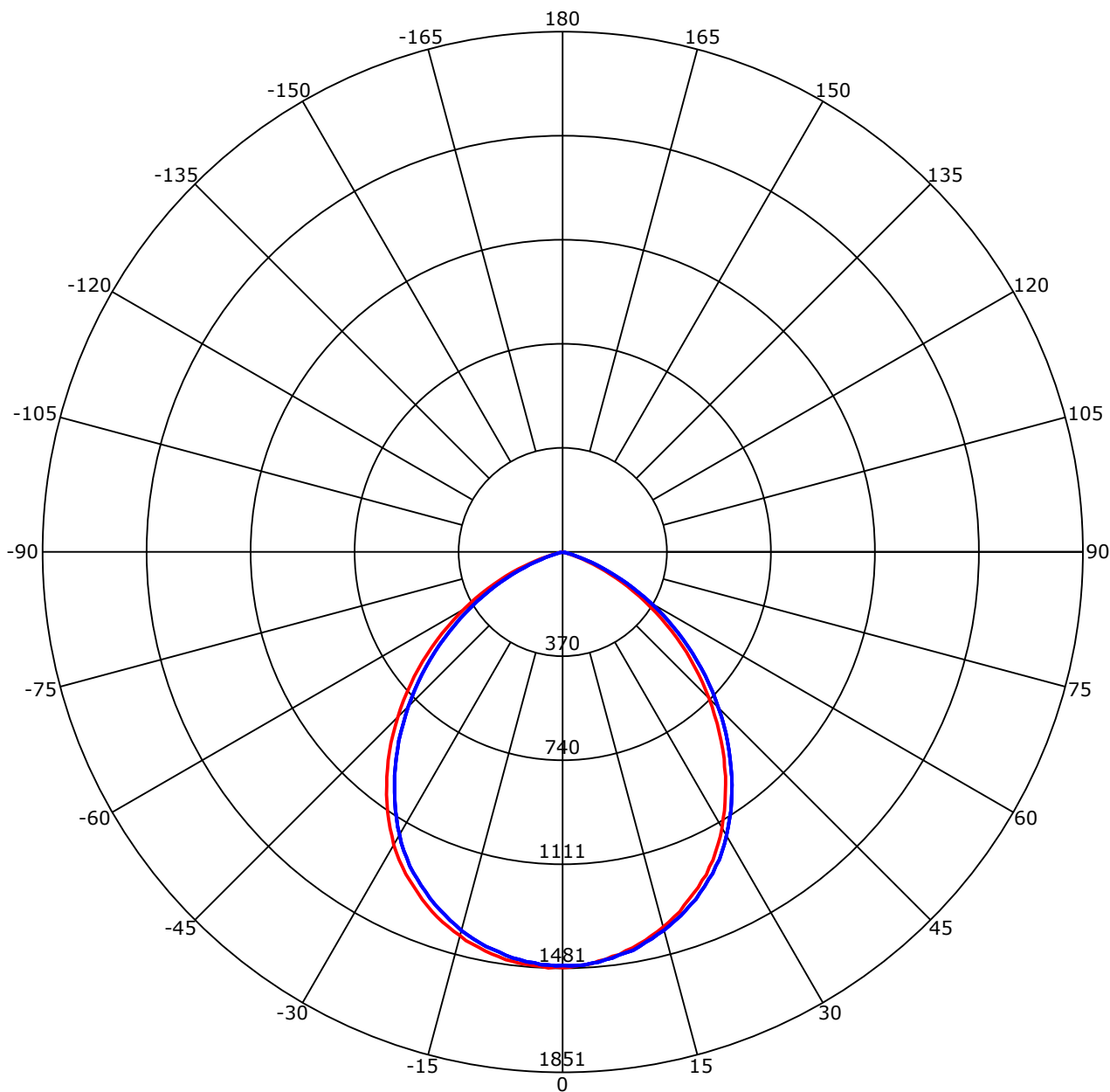
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

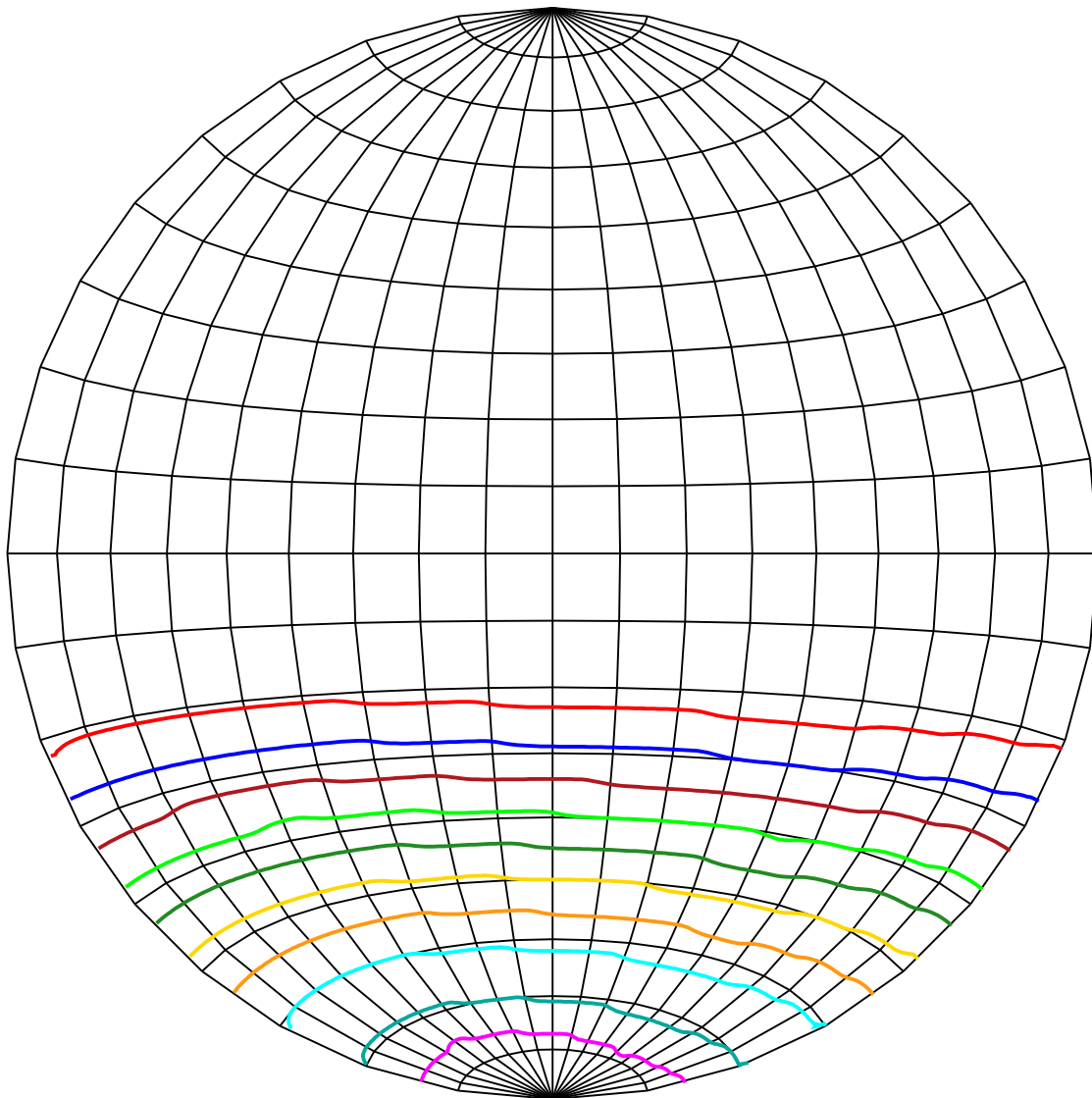
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1480.696 cd

1406.661(95%Imax)	740.348(50%Imax)
1332.626(90%Imax)	592.278(40%Imax)
1184.557(80%Imax)	444.209(30%Imax)
1036.487(70%Imax)	296.139(20%Imax)
888.418(60%Imax)	148.07(10%Imax)

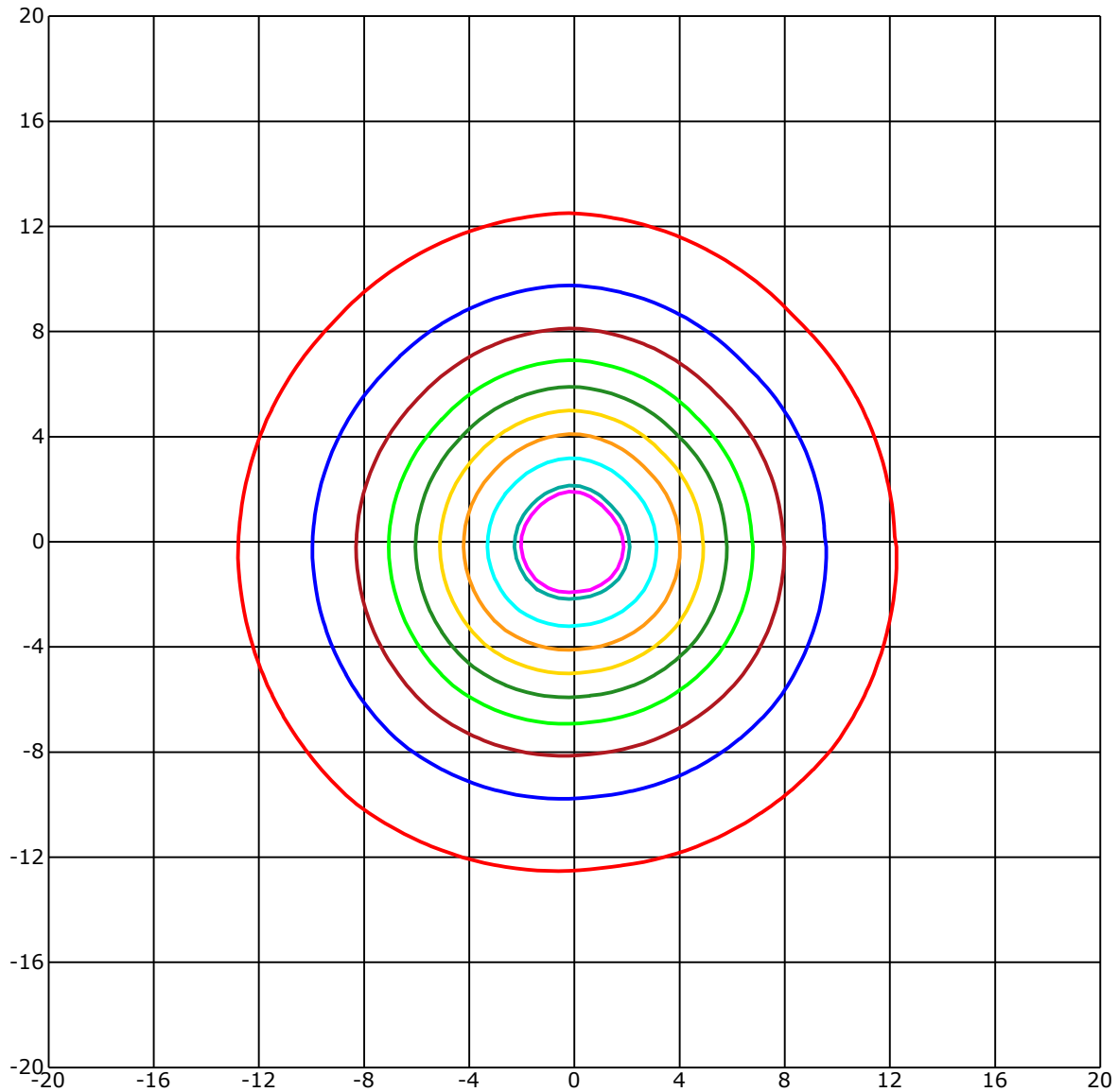
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ISOLX DIAGRAM



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

13.604(92%Emax)	7.393(50%Emax)
13.308(90%Emax)	5.915(40%Emax)
11.829(80%Emax)	4.436(30%Emax)
10.351(70%Emax)	2.957(20%Emax)
8.872(60%Emax)	1.479(10%Emax)

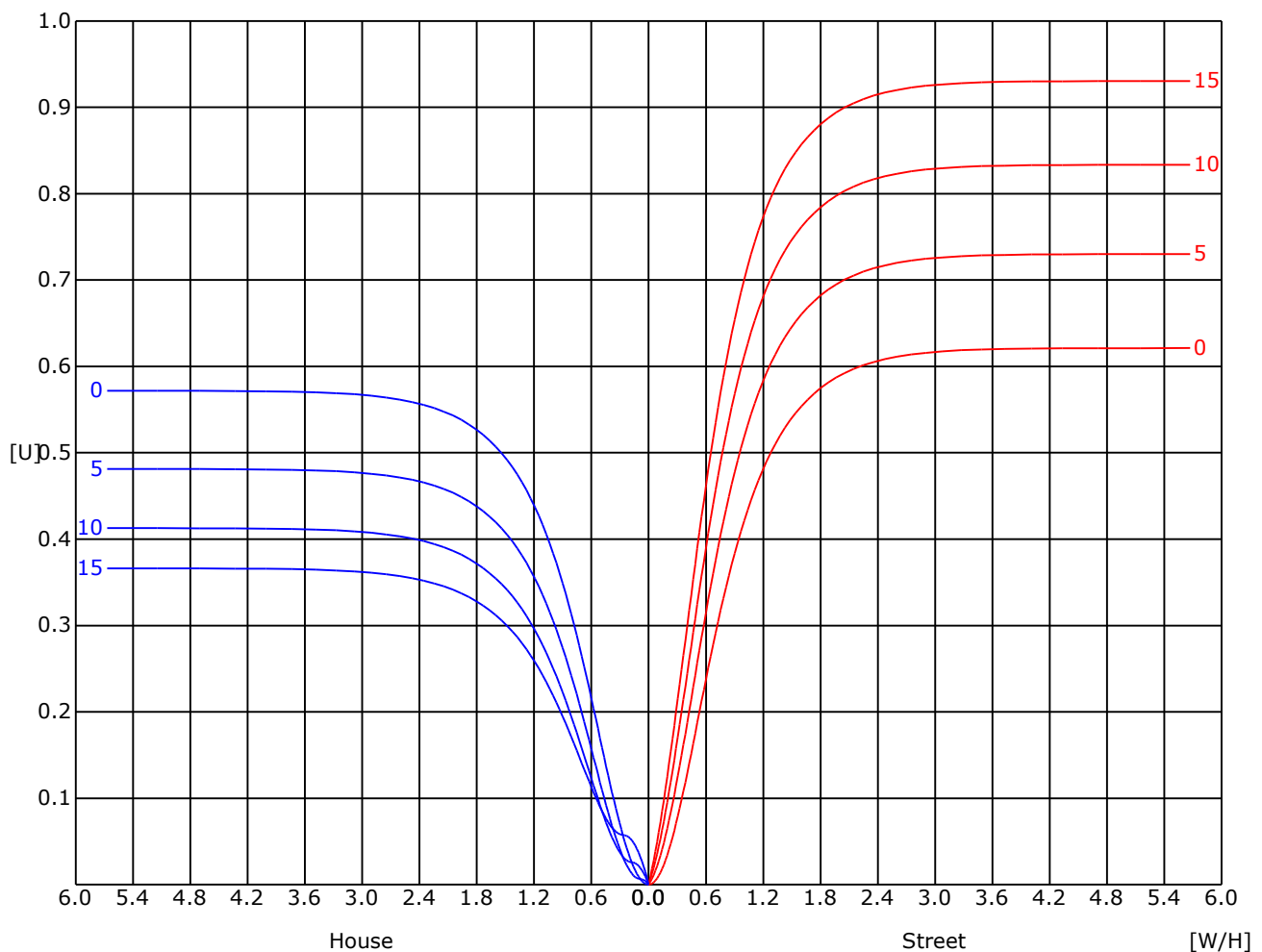
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UTILIZATION FACTOR DIAGRAM (ROAD)



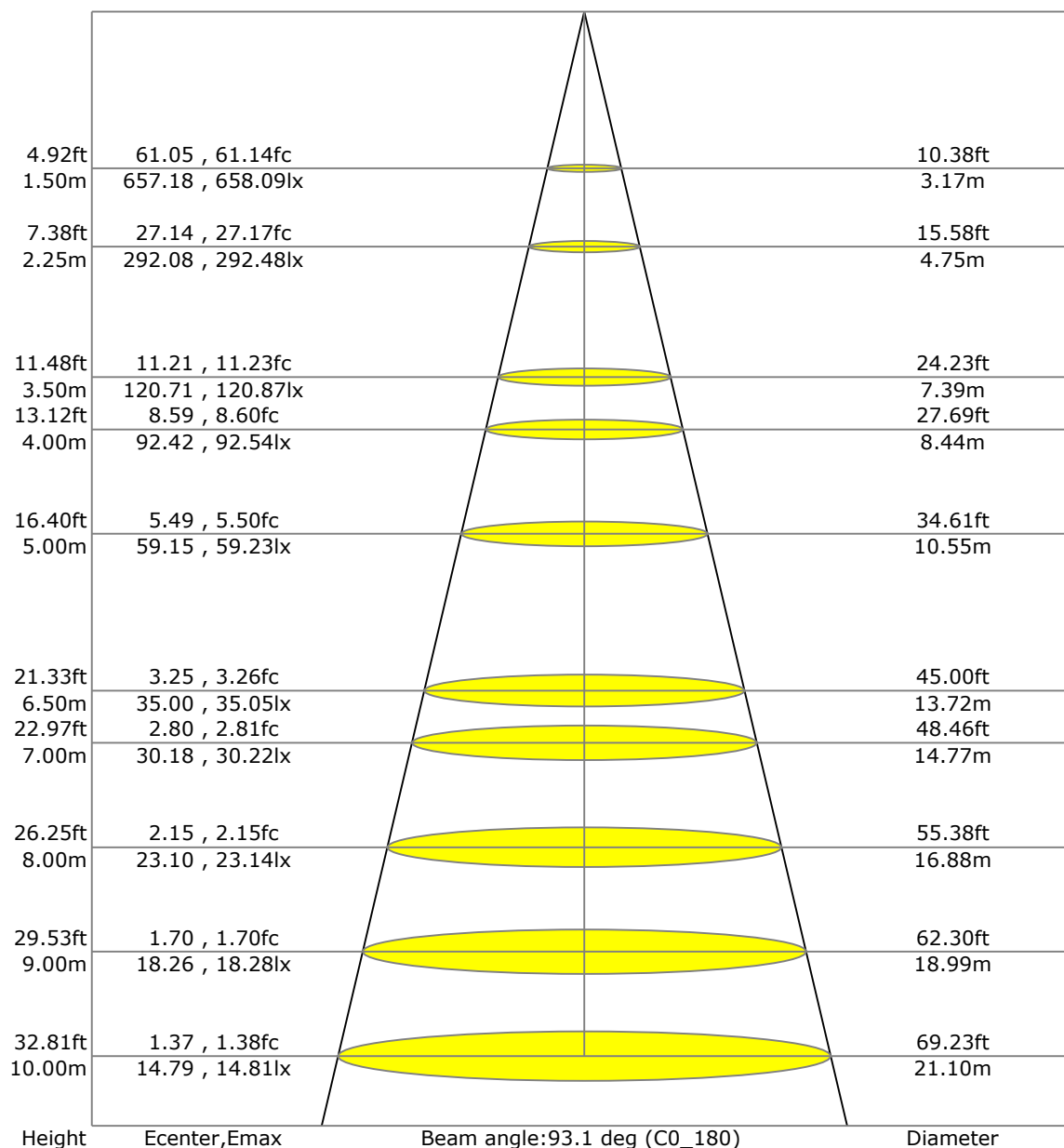
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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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	16.55	16.62	16.75	16.81	17.05	16.74	16.80	16.94	16.99	17.23
3H	16.55	16.62	16.76	16.81	17.06	16.72	16.79	16.93	16.98	17.23
4H	16.53	16.59	16.74	16.79	17.04	16.70	16.76	16.91	16.96	17.21
6H	16.50	16.56	16.72	16.76	17.02	16.67	16.73	16.89	16.94	17.19
8H	16.49	16.55	16.71	16.75	17.00	16.66	16.72	16.88	16.92	17.18
12H	16.47	16.53	16.69	16.74	16.99	16.64	16.70	16.87	16.91	17.16
4H 2H	16.98	17.04	17.19	17.24	17.49	17.30	17.36	17.51	17.56	17.81
3H	16.97	17.03	17.19	17.23	17.49	17.28	17.34	17.50	17.54	17.80
4H	16.94	16.99	17.17	17.21	17.47	17.25	17.30	17.48	17.52	17.77
6H	16.90	16.96	17.14	17.18	17.44	17.21	17.27	17.45	17.49	17.75
8H	16.89	16.94	17.13	17.16	17.43	17.20	17.25	17.44	17.47	17.74
12H	16.87	16.92	17.12	17.15	17.42	17.18	17.23	17.43	17.46	17.73
8H 4H	16.94	17.00	17.16	17.20	17.46	17.26	17.32	17.48	17.52	17.78
6H	16.85	16.89	17.10	17.13	17.41	17.16	17.21	17.42	17.44	17.72
8H	16.83	16.87	17.09	17.12	17.39	17.14	17.18	17.40	17.43	17.70
12H	16.81	16.85	17.08	17.10	17.38	17.12	17.16	17.39	17.41	17.69
12H 4H	16.87	16.92	17.12	17.15	17.42	17.18	17.23	17.43	17.46	17.73
6H	16.83	16.87	17.09	17.12	17.39	17.14	17.18	17.40	17.43	17.71

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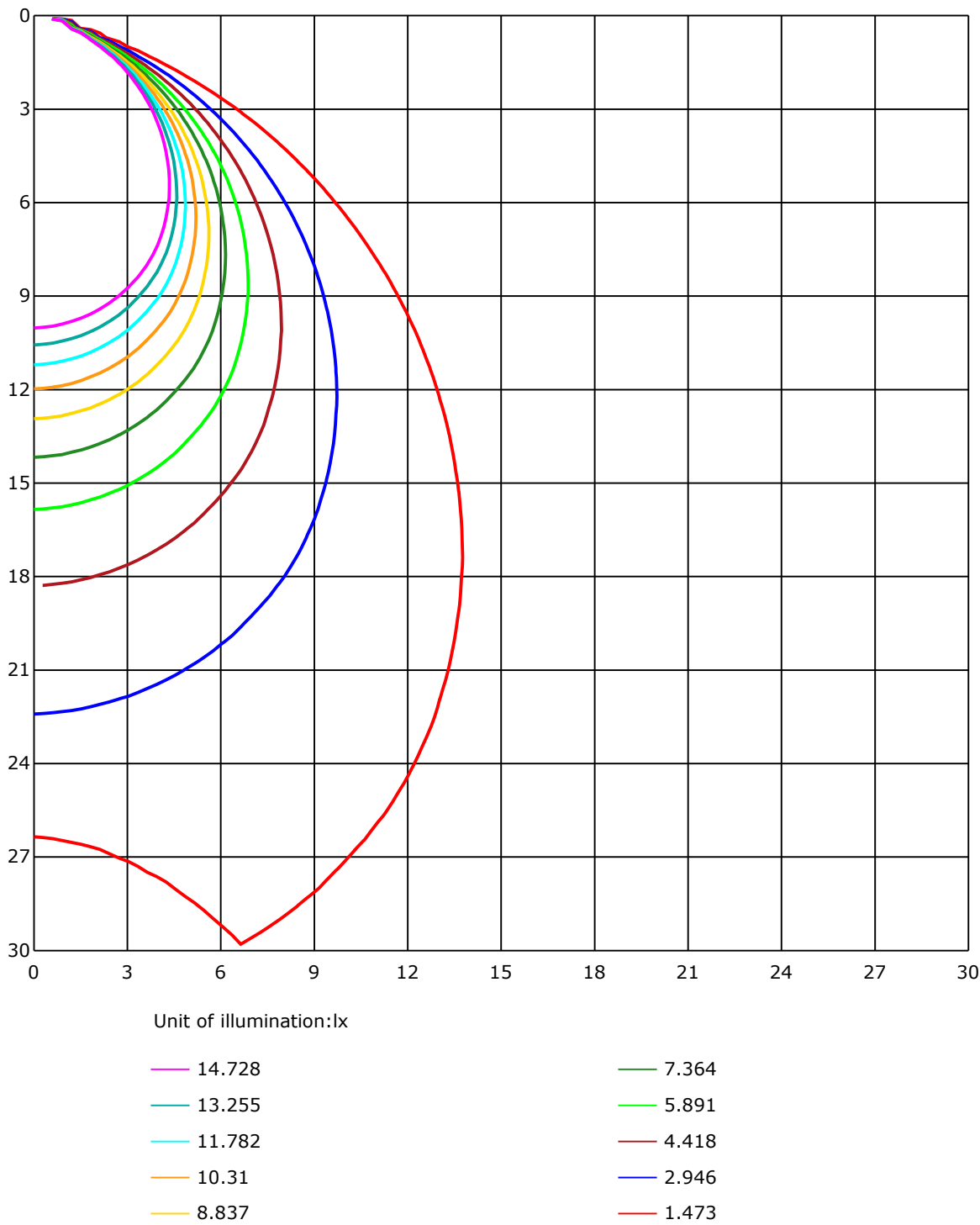
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/9/12 9:49:16

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.81 m
 Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1478.66	1466.32	1470.68	1476.66	1478.66	1466.32	1470.68	1476.66	1478.66	
G1	1477.08	1466.0	1471.47	1473.93	1477.36	1469.01	1471.42	1474.48	1477.08	
G2	1472.72	1462.93	1471.42	1473.79	1480.7	1471.1	1469.2	1475.78	1472.72	
G3	1470.82	1461.17	1470.68	1470.49	1475.97	1469.2	1469.43	1473.28	1470.82	
G4	1467.94	1454.4	1466.13	1469.66	1474.71	1468.73	1464.6	1472.81	1467.94	
G5	1460.43	1448.09	1463.95	1463.95	1472.58	1468.64	1463.44	1466.64	1460.43	
G6	1457.14	1441.0	1457.65	1460.57	1470.73	1467.8	1458.11	1464.74	1457.14	
G7	1449.07	1439.47	1455.0	1453.57	1467.06	1465.9	1454.4	1459.22	1449.07	
G8	1445.68	1427.22	1447.4	1449.16	1463.86	1459.27	1448.93	1452.92	1445.68	
G9	1435.57	1421.34	1442.53	1441.74	1456.72	1457.23	1440.86	1445.91	1435.57	
G10	1429.73	1410.76	1438.96	1435.85	1452.04	1451.39	1435.16	1441.42	1429.73	
G11	1420.22	1404.59	1429.45	1428.15	1445.68	1446.7	1429.68	1433.25	1420.22	
G12	1412.15	1391.79	1419.34	1418.88	1437.66	1439.42	1420.73	1425.42	1412.15	
G13	1401.3	1383.31	1411.78	1410.76	1431.07	1433.62	1411.92	1418.0	1401.3	
G14	1391.84	1373.15	1401.35	1401.12	1424.72	1423.98	1402.55	1407.79	1391.84	
G15	1380.9	1360.49	1392.44	1389.94	1412.66	1416.84	1393.42	1397.17	1380.9	
G16	1369.95	1348.15	1381.92	1380.85	1404.18	1408.16	1380.8	1387.76	1369.95	
G17	1356.69	1334.06	1370.88	1367.21	1392.86	1400.7	1370.51	1376.72	1356.69	
G18	1345.6	1321.26	1359.98	1356.87	1383.86	1389.52	1357.38	1366.05	1345.6	
G19	1328.58	1308.13	1347.18	1342.12	1372.18	1378.72	1345.37	1352.75	1328.58	
G20	1314.58	1291.76	1333.22	1331.83	1360.91	1366.01	1332.39	1339.62	1314.58	
G21	1299.27	1275.71	1322.6	1316.06	1346.3	1354.04	1318.75	1325.38	1299.27	
G22	1286.75	1259.95	1306.46	1301.45	1332.99	1340.46	1303.45	1314.25	1286.75	
G23	1268.2	1244.78	1292.41	1287.31	1317.92	1329.0	1288.56	1298.44	1268.2	
G24	1256.61	1226.74	1274.23	1271.63	1303.26	1315.97	1272.28	1281.28	1256.61	
G25	1235.04	1209.63	1262.08	1256.98	1288.14	1299.74	1257.81	1267.51	1235.04	
G26	1218.63	1188.11	1242.37	1237.27	1274.42	1283.88	1242.14	1252.39	1218.63	
G27	1197.06	1169.0	1227.53	1219.27	1256.51	1269.41	1221.92	1233.65	1197.06	
G28	1176.7	1147.21	1207.59	1201.33	1239.63	1253.64	1204.25	1215.24	1176.7	
G29	1156.67	1124.34	1186.76	1178.46	1221.27	1239.45	1183.94	1194.56	1156.67	
G30	1133.76	1099.44	1165.52	1157.46	1202.9	1218.49	1161.35	1174.1	1133.76	
G31	1107.32	1075.74	1142.99	1133.39	1179.9	1198.68	1139.6	1152.31	1107.32	
G32	1085.9	1053.11	1119.38	1111.13	1159.22	1177.54	1115.53	1128.47	1085.9	
G33	1060.16	1029.78	1097.82	1086.59	1136.17	1159.12	1093.69	1105.24	1060.16	
G34	1035.16	1004.83	1073.19	1063.4	1113.95	1134.45	1068.6	1083.3	1035.16	
G35	1009.65	979.97	1049.21	1039.57	1089.42	1111.31	1043.32	1057.1	1009.65	
G36	985.21	950.85	1025.1	1012.39	1066.09	1086.64	1018.33	1032.84	985.21	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	956.69	924.23	998.99	987.39	1040.77	1062.76	994.21	1007.57	956.69	
G38	933.6	896.91	971.81	962.68	1016.38	1039.61	966.76	983.5	933.6	
G39	904.47	872.94	946.54	934.8	990.18	1014.66	941.02	956.18	904.47	
G40	877.39	842.89	920.52	906.98	966.11	987.81	914.49	929.28	877.39	
G41	848.91	814.69	894.5	881.01	939.02	963.88	888.89	903.73	848.91	
G42	821.18	787.28	867.23	853.32	913.33	936.66	859.67	877.11	821.18	
G43	791.83	759.32	839.08	824.66	884.16	907.81	830.83	849.05	791.83	
G44	765.07	731.3	812.28	798.13	857.4	880.31	804.07	820.86	765.07	
G45	736.55	703.8	782.64	770.26	828.65	855.69	776.66	793.22	736.55	
G46	707.93	675.24	755.47	741.69	802.31	825.77	747.07	765.44	707.93	
G47	678.9	646.62	727.83	712.99	774.16	798.41	719.9	735.9	678.9	
G48	651.63	619.45	698.98	684.0	746.56	770.96	691.24	708.12	651.63	
G49	621.86	589.39	672.87	656.08	716.7	743.5	663.55	680.01	621.86	
G50	594.31	561.38	643.56	627.7	689.66	714.79	634.1	651.77	594.31	
G51	565.79	533.42	614.25	600.01	660.91	686.69	605.53	623.8	565.79	
G52	536.62	504.57	586.01	569.87	632.99	657.94	576.87	596.07	536.62	
G53	508.79	477.02	558.88	541.21	603.72	630.76	548.72	567.23	508.79	
G54	480.41	448.09	528.78	512.64	574.6	600.71	519.74	538.94	480.41	
G55	450.17	420.96	500.35	484.44	545.24	571.59	490.89	510.09	450.17	
G56	423.37	392.48	472.2	456.02	517.33	542.6	462.6	482.22	423.37	
G57	395.22	365.49	443.68	428.28	488.06	514.68	436.12	453.6	395.22	
G58	368.04	338.45	416.69	401.01	460.56	485.98	406.39	426.38	368.04	
G59	340.54	312.02	389.23	373.23	431.76	457.55	379.03	398.28	340.54	
G60	314.89	285.49	361.04	345.73	404.77	429.35	351.76	370.17	314.89	
G61	287.76	259.1	334.19	318.56	376.81	401.99	325.1	343.42	287.76	
G62	261.98	233.78	307.38	291.75	349.26	374.02	297.64	316.98	261.98	
G63	236.84	209.02	280.62	265.5	322.13	346.66	271.58	290.5	236.84	
G64	211.43	184.76	254.88	239.58	296.39	320.0	245.1	264.48	211.43	
G65	186.52	160.55	229.19	214.26	269.72	293.75	219.92	238.84	186.52	
G66	163.01	137.74	203.13	190.0	243.57	266.94	194.87	212.91	163.01	
G67	138.48	115.24	178.36	166.07	218.29	240.65	170.29	187.82	138.48	
G68	116.08	93.96	154.99	143.39	193.62	214.95	146.73	162.92	116.08	
G69	95.16	74.39	132.17	121.6	169.13	190.47	124.89	139.59	95.16	
G70	75.45	56.12	110.28	100.4	146.04	166.17	103.19	117.47	75.45	
G71	56.53	39.28	89.74	80.18	122.9	142.47	82.97	95.77	56.53	
G72	39.79	24.63	69.89	61.59	101.29	119.7	64.09	75.41	39.79	
G73	24.9	12.8	52.54	43.73	80.69	98.69	46.05	57.04	24.9	

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