

Report No.:

Test Time: 2024/9/12 16:53:00

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-41.3W
Lamp Type:
Luminous Width: 190 mm
Luminous Length: 190 mm
Luminous Height: 70 mm

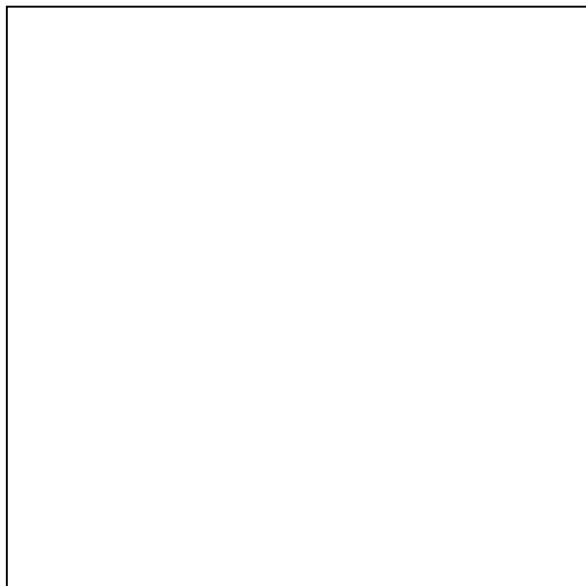
Voltage(V): 219.80 V
Current(A): 0.1910 A
Power(W): 41.25 W
Power Factor: 0.9800
Lamp Luminous Flux: 3841.45

Photometric Results

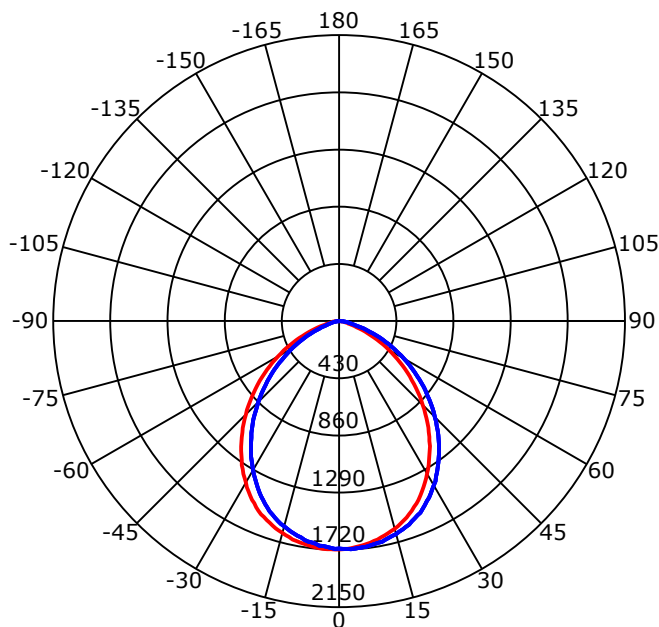
CIE Class: Direct
Luminaire Luminous Flux: 3841.454 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 93.13 lm/W
Beam Angle(50%) C0-180,C90-270: 95.4,95.3
Field Angle(10%) C0-180,C90-270: 142.6,142.6
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1719.95 cd
Max.Intensity Angle: C=135 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1717.59 cd
Effective Luminous Flux: 3714.11 lm
ERP(ϕ use)(120deg): 3355.66 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 95.4 deg,95.3 deg

C0-180 — C90-270 —

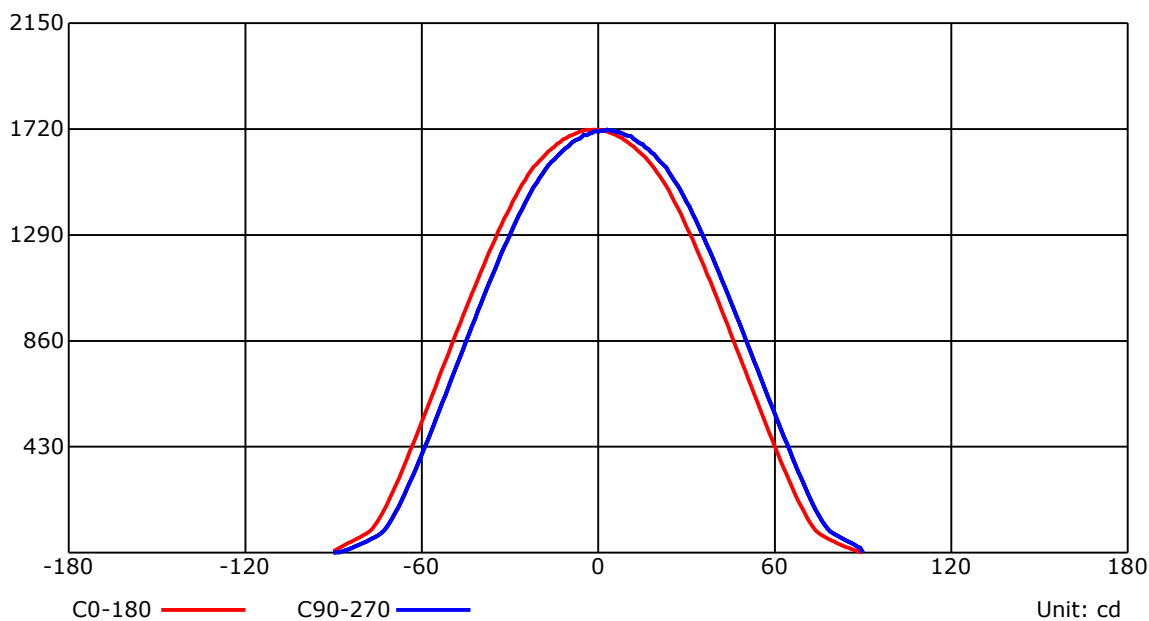
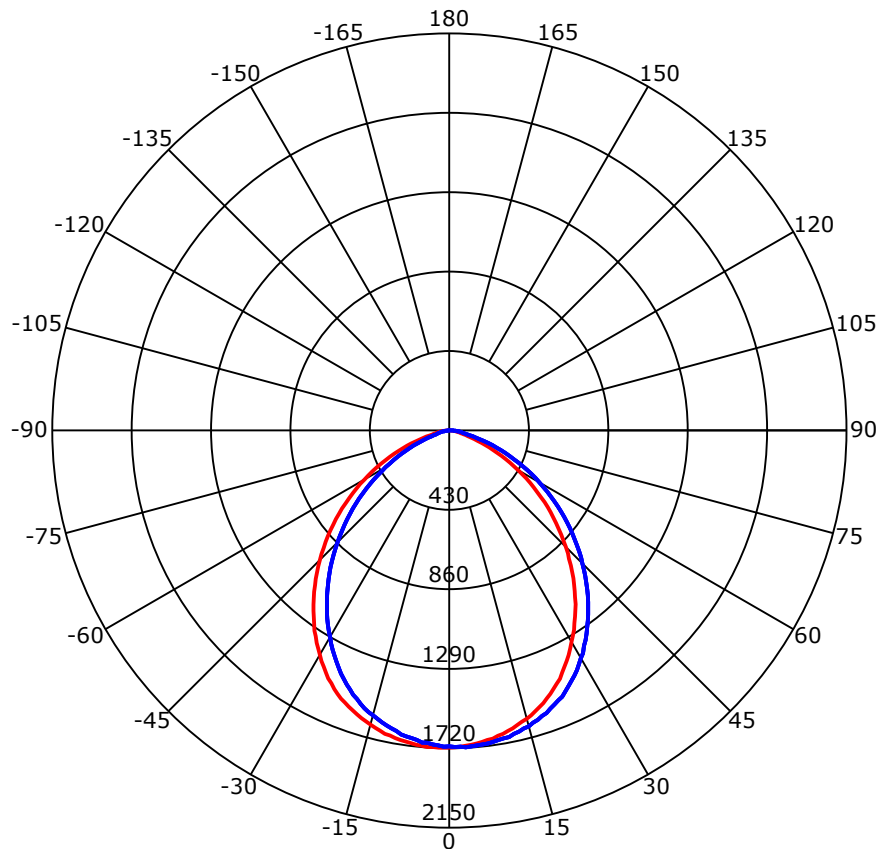
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 16:53:00

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



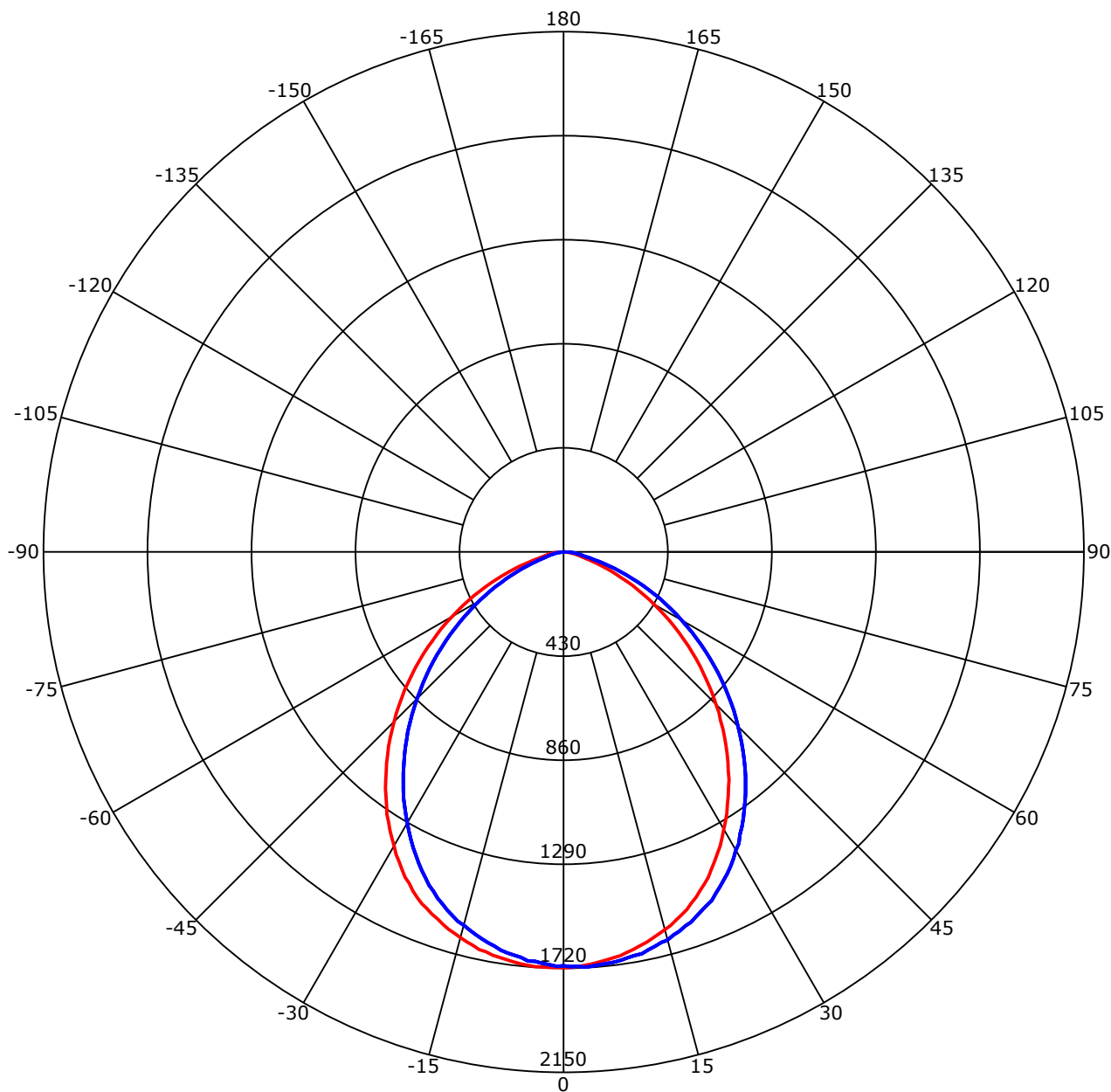
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

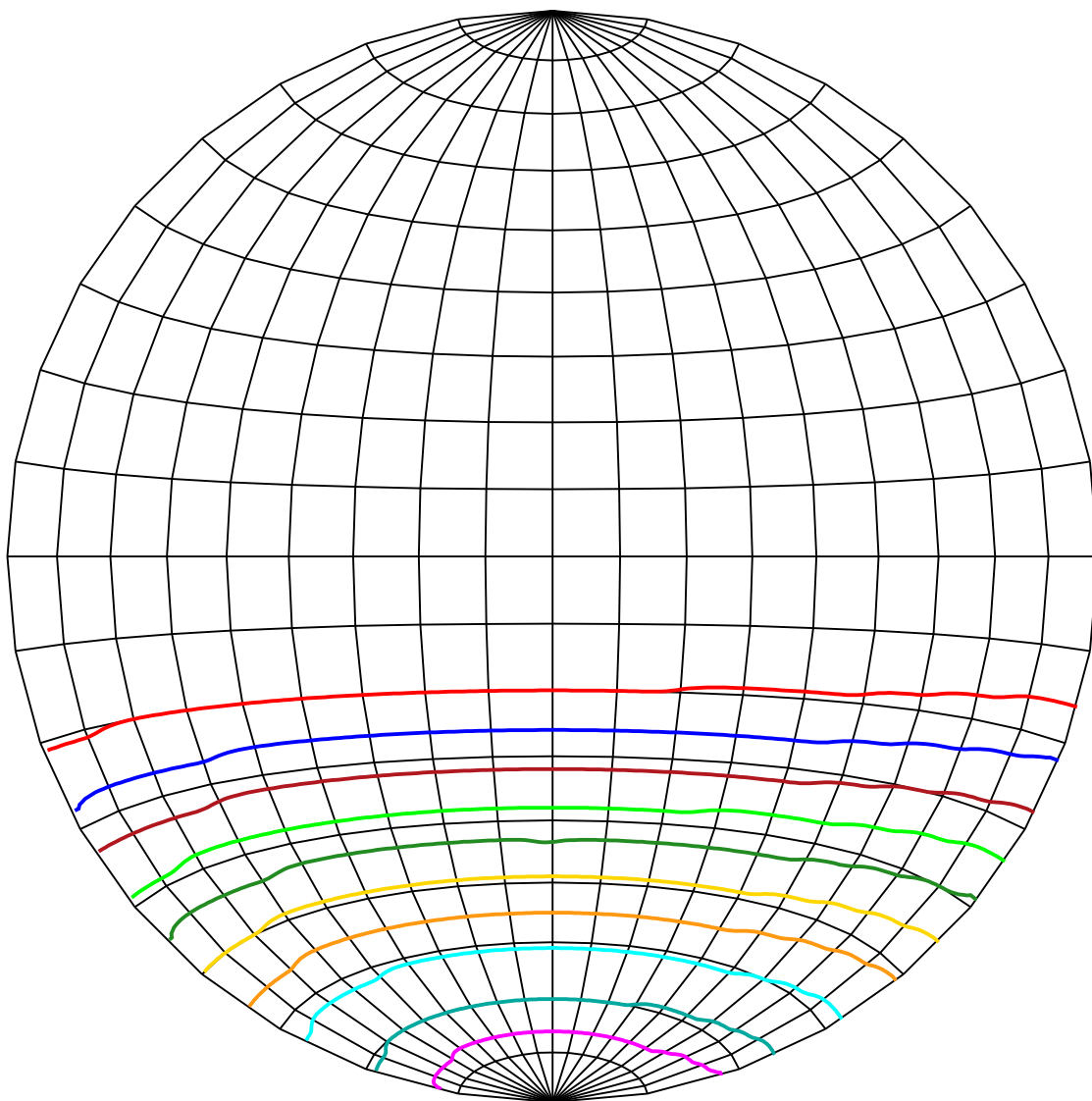
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1719.95 cd

1633.953(95%I _{max})	859.975(50%I _{max})
1547.955(90%I _{max})	687.98(40%I _{max})
1375.96(80%I _{max})	515.985(30%I _{max})
1203.965(70%I _{max})	343.99(20%I _{max})
1031.97(60%I _{max})	171.995(10%I _{max})

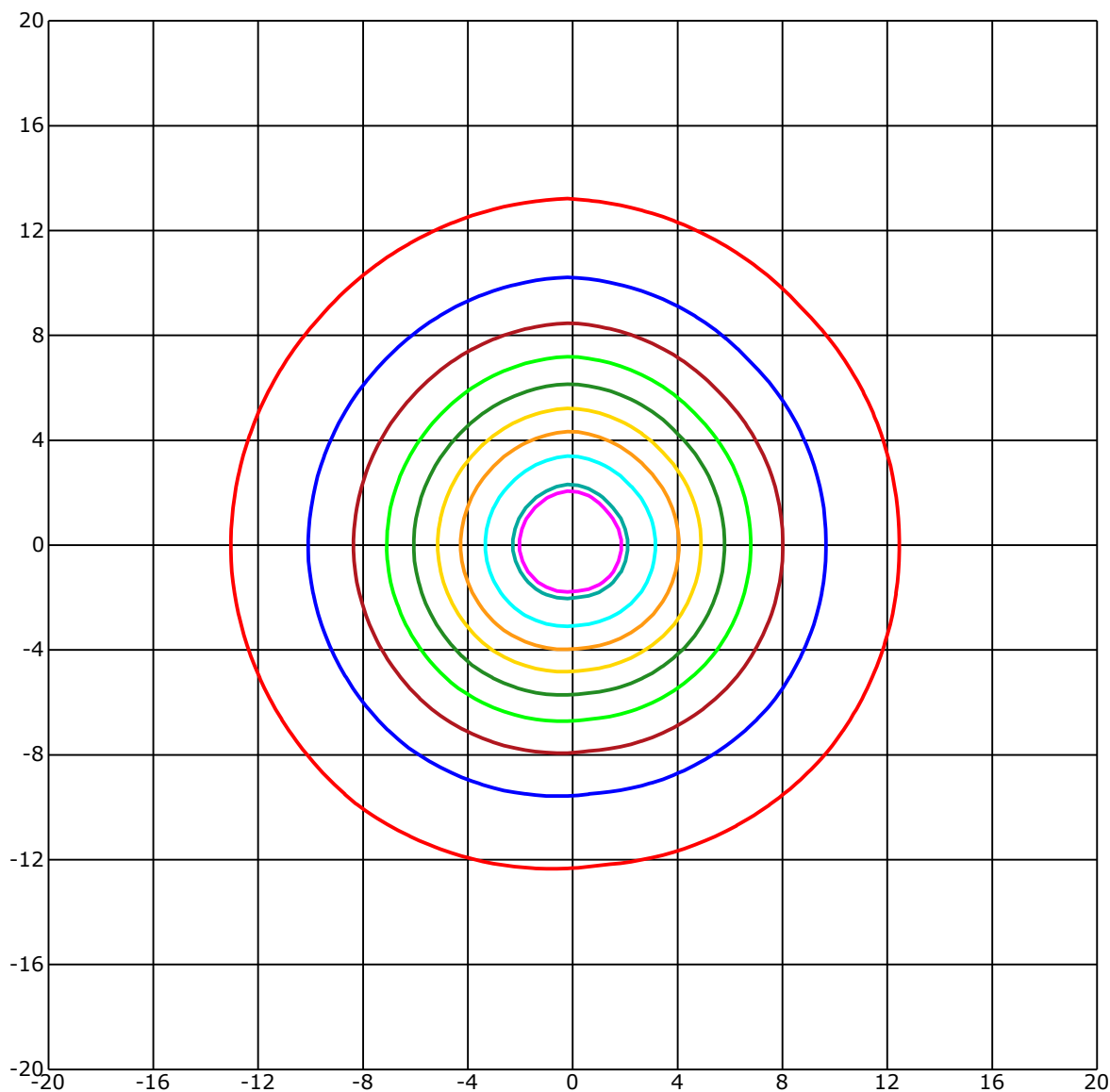
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ISOLX DIAGRAM



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

15.802(92%Emax)	8.588(50%Emax)
15.458(90%Emax)	6.87(40%Emax)
13.741(80%Emax)	5.153(30%Emax)
12.023(70%Emax)	3.435(20%Emax)
10.306(60%Emax)	1.718(10%Emax)

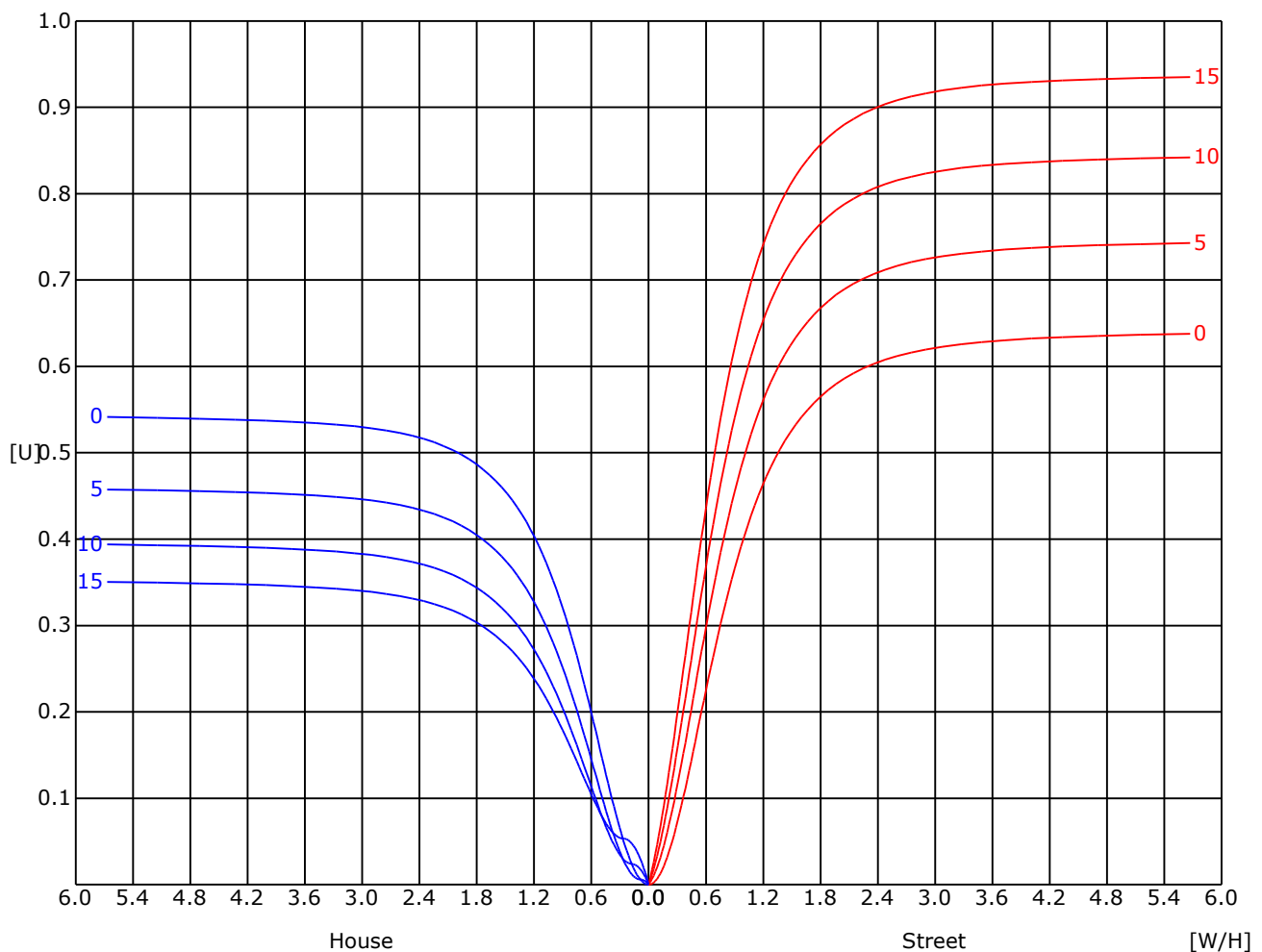
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UTILIZATION FACTOR DIAGRAM (ROAD)



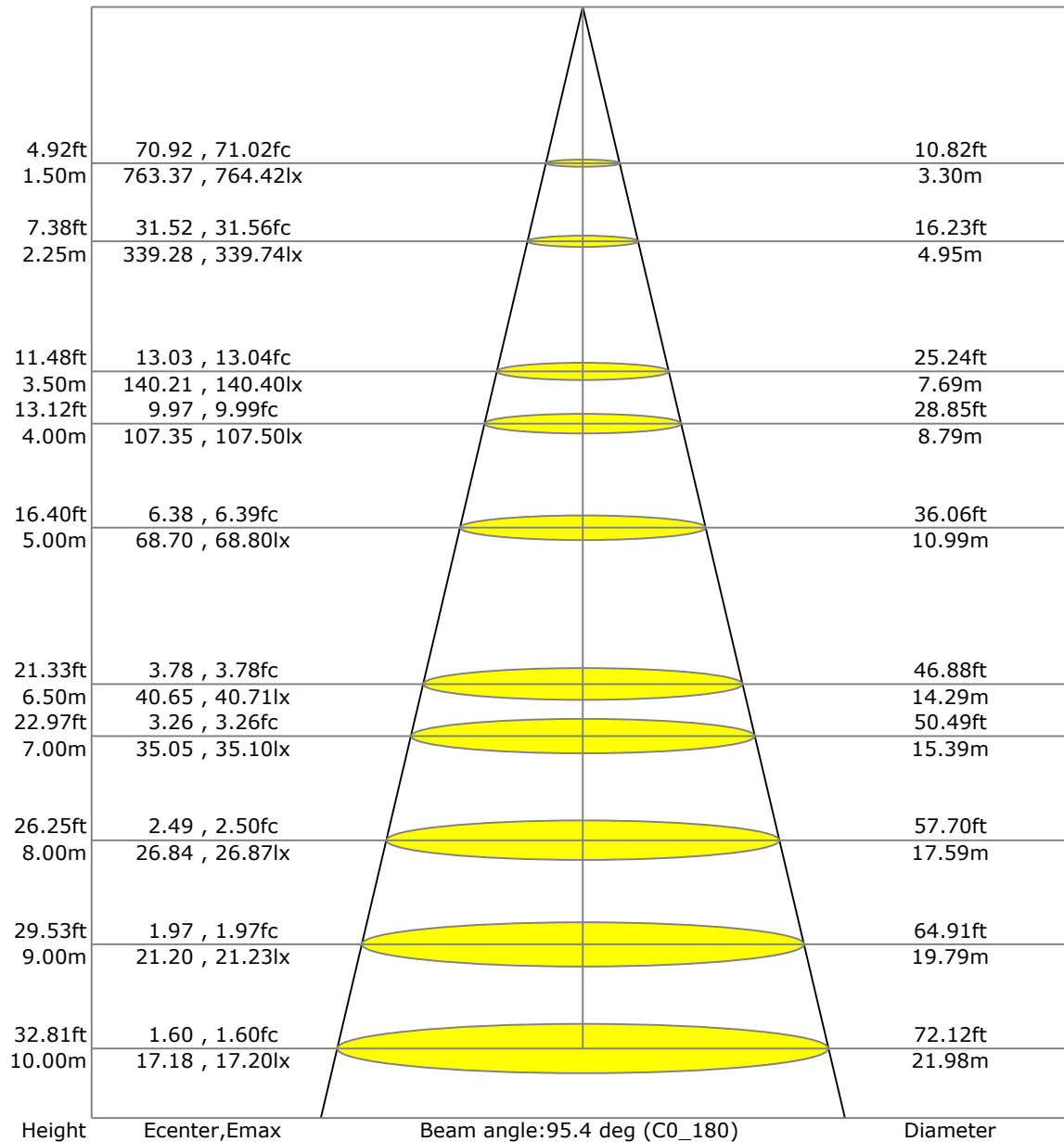
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LX-DISTANCE DIAGRAM



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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	16.13	16.20	16.33	16.39	16.64	16.50	16.57	16.70	16.76	17.01
	3H	16.20	16.27	16.41	16.46	16.71	16.53	16.60	16.74	16.79	17.04
	4H	16.19	16.25	16.40	16.45	16.70	16.51	16.58	16.72	16.77	17.02
	6H	16.16	16.23	16.38	16.43	16.68	16.48	16.55	16.70	16.75	17.00
	8H	16.15	16.21	16.37	16.41	16.67	16.47	16.53	16.69	16.74	16.99
	12H	16.13	16.19	16.35	16.40	16.66	16.45	16.52	16.68	16.72	16.98
4H	2H	17.03	17.10	17.24	17.29	17.54	17.81	17.88	18.03	18.08	18.33
	3H	17.14	17.20	17.36	17.41	17.66	17.88	17.95	18.11	18.15	18.41
	4H	17.14	17.20	17.37	17.41	17.67	17.87	17.93	18.10	18.14	18.40
	6H	17.12	17.17	17.36	17.40	17.66	17.84	17.90	18.08	18.12	18.38
	8H	17.10	17.16	17.35	17.38	17.65	17.83	17.88	18.07	18.11	18.37
	12H	17.09	17.14	17.33	17.37	17.64	17.81	17.86	18.06	18.09	18.36
8H	4H	17.08	17.15	17.30	17.35	17.60	17.95	18.02	18.17	18.22	18.47
	6H	17.23	17.28	17.48	17.51	17.79	18.06	18.10	18.31	18.34	18.61
	8H	17.22	17.26	17.48	17.51	17.78	18.04	18.09	18.30	18.33	18.61
	12H	17.20	17.24	17.47	17.50	17.78	18.02	18.06	18.29	18.32	18.60
12H	4H	17.25	17.30	17.49	17.53	17.80	18.13	18.18	18.38	18.41	18.68
	6H	17.25	17.29	17.51	17.54	17.81	18.13	18.17	18.39	18.42	18.69

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ZONAL LUMINOUS FLUX TABLE

[illegible]

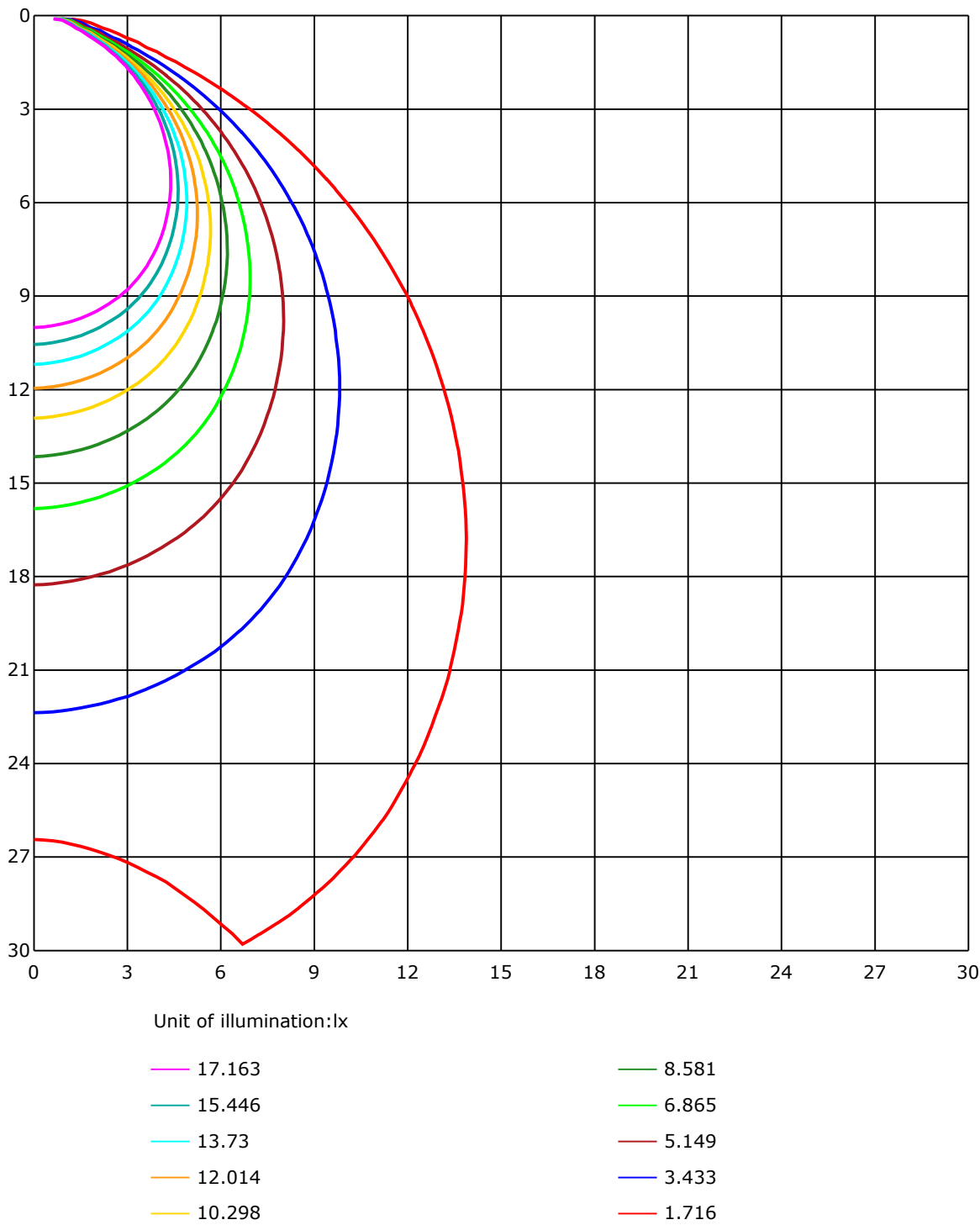
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SPACE ISOLX DIAGRAM



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 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	1717.59	1706.55	1710.03	1716.89	1717.59	1706.55	1710.03	1716.89	1717.59	
G1	1716.1	1706.78	1713.04	1716.33	1717.21	1710.49	1712.39	1715.27	1716.1	
G2	1713.46	1703.49	1712.62	1719.95	1717.26	1707.48	1705.44	1712.81	1713.46	
G3	1709.1	1700.8	1717.63	1716.8	1716.52	1706.46	1701.59	1709.61	1709.1	
G4	1705.02	1699.64	1714.66	1716.19	1717.4	1703.16	1695.65	1706.97	1705.02	
G5	1700.33	1694.4	1711.79	1711.37	1713.88	1702.75	1696.3	1701.12	1700.33	
G6	1694.91	1689.39	1709.42	1711.79	1710.68	1700.33	1684.01	1695.65	1694.91	
G7	1688.46	1687.39	1707.52	1705.34	1705.57	1693.75	1678.03	1689.62	1688.46	
G8	1684.06	1677.61	1702.51	1699.45	1700.98	1688.51	1672.88	1682.62	1684.06	
G9	1674.18	1670.47	1696.72	1694.21	1695.79	1684.01	1665.74	1674.08	1674.18	
G10	1667.08	1662.72	1692.73	1689.25	1690.87	1675.01	1652.01	1666.94	1667.08	
G11	1656.88	1654.42	1691.2	1681.18	1682.85	1668.84	1643.57	1656.69	1656.88	
G12	1648.49	1645.42	1679.88	1674.83	1679.0	1661.89	1633.13	1647.05	1648.49	
G13	1636.75	1636.8	1672.46	1666.62	1667.31	1653.49	1621.82	1638.14	1636.75	
G14	1625.81	1624.0	1663.09	1657.58	1659.62	1641.71	1608.97	1627.01	1625.81	
G15	1615.42	1614.07	1659.24	1647.84	1648.86	1631.98	1596.64	1614.35	1615.42	
G16	1605.03	1602.34	1646.44	1638.47	1638.65	1625.99	1586.76	1604.43	1605.03	
G17	1589.77	1590.75	1637.54	1626.22	1629.05	1611.11	1571.87	1591.4	1589.77	
G18	1575.86	1578.6	1625.48	1616.76	1615.98	1601.51	1555.78	1578.92	1575.86	
G19	1561.95	1561.16	1617.14	1600.95	1603.27	1586.39	1538.11	1564.68	1561.95	
G20	1543.81	1549.89	1601.41	1589.22	1591.35	1573.87	1522.81	1547.52	1543.81	
G21	1527.72	1532.73	1588.85	1575.35	1577.76	1560.7	1502.17	1529.95	1527.72	
G22	1507.64	1512.97	1575.3	1559.58	1566.72	1541.91	1484.22	1509.13	1507.64	
G23	1489.65	1494.15	1565.24	1543.72	1549.75	1526.84	1462.15	1491.08	1489.65	
G24	1470.86	1476.06	1544.93	1528.23	1532.22	1507.22	1440.4	1470.08	1470.86	
G25	1445.45	1454.54	1526.42	1508.06	1510.28	1488.02	1418.55	1446.33	1445.45	
G26	1422.68	1432.33	1507.73	1489.09	1494.75	1468.45	1394.11	1426.67	1422.68	
G27	1399.07	1407.61	1490.06	1467.15	1471.51	1445.27	1369.9	1400.65	1399.07	
G28	1376.44	1386.0	1469.57	1445.13	1448.98	1424.4	1345.05	1378.9	1376.44	
G29	1349.78	1360.26	1447.07	1422.12	1428.89	1402.41	1319.73	1352.98	1349.78	
G30	1322.79	1338.88	1423.51	1399.54	1402.23	1378.58	1292.22	1328.44	1322.79	
G31	1298.67	1309.43	1405.75	1374.26	1378.48	1354.04	1266.25	1300.66	1298.67	
G32	1273.21	1283.55	1375.52	1350.47	1355.57	1327.42	1240.42	1275.67	1273.21	
G33	1242.74	1257.81	1353.07	1326.08	1328.44	1302.84	1214.73	1247.75	1242.74	
G34	1215.94	1229.15	1327.15	1299.18	1307.2	1275.06	1183.98	1222.66	1215.94	
G35	1187.92	1202.81	1301.22	1271.82	1275.25	1248.12	1154.81	1191.82	1187.92	
G36	1162.14	1174.06	1274.93	1244.87	1249.19	1221.69	1127.13	1164.46	1162.14	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1130.19	1146.51	1248.49	1216.21	1222.98	1195.44	1097.4	1136.35	1130.19	
G38	1103.47	1118.68	1220.48	1189.96	1195.34	1167.33	1068.92	1109.18	1103.47	
G39	1073.1	1089.19	1193.86	1161.68	1165.62	1139.32	1039.29	1077.97	1073.1	
G40	1044.39	1059.83	1165.43	1132.69	1139.51	1109.27	1009.56	1050.51	1044.39	
G41	1013.92	1031.36	1137.28	1101.62	1109.18	1081.12	981.69	1020.78	1013.92	
G42	983.03	1000.56	1107.79	1074.44	1081.03	1051.86	948.11	990.87	983.03	
G43	950.39	969.21	1078.38	1042.58	1050.47	1023.61	918.48	960.5	950.39	
G44	923.44	940.55	1048.98	1013.55	1020.88	992.49	886.9	929.75	923.44	
G45	889.86	909.76	1019.58	982.71	991.71	961.75	857.68	898.82	889.86	
G46	859.58	880.31	990.87	954.1	963.23	931.32	825.54	870.43	859.58	
G47	828.42	848.87	960.59	926.64	930.72	901.37	796.0	836.9	828.42	
G48	797.62	818.72	930.3	893.81	901.55	869.97	764.0	807.87	797.62	
G49	766.55	789.04	899.51	861.44	871.08	840.29	733.99	775.32	766.55	
G50	737.01	756.72	869.04	832.31	839.73	810.89	703.15	745.77	737.01	
G51	704.82	726.3	839.18	799.48	807.96	779.3	672.22	715.91	704.82	
G52	675.89	695.55	808.57	768.17	779.12	748.79	640.18	684.84	675.89	
G53	645.09	664.99	777.91	738.17	747.12	717.44	610.36	653.02	645.09	
G54	612.35	633.73	746.24	707.28	717.95	686.51	579.01	623.57	612.35	
G55	581.51	603.45	715.77	674.63	684.33	656.04	548.44	591.34	581.51	
G56	551.27	573.3	685.07	644.4	653.53	624.92	517.56	562.22	551.27	
G57	521.92	543.81	654.37	613.65	623.71	593.85	488.39	530.08	521.92	
G58	490.89	513.52	624.18	583.5	594.26	564.35	457.31	500.12	490.89	
G59	460.7	484.4	593.1	553.17	562.31	532.77	428.14	469.28	460.7	
G60	430.93	454.02	562.59	523.26	531.84	502.49	398.97	439.55	430.93	
G61	401.85	425.27	533.33	492.24	501.88	473.78	370.45	411.54	401.85	
G62	372.63	394.8	502.9	462.83	471.46	443.17	342.02	382.42	372.63	
G63	344.95	366.0	473.69	432.97	441.73	414.6	315.22	353.85	344.95	
G64	316.29	337.48	445.12	404.08	413.4	384.78	287.67	326.26	316.29	
G65	288.46	309.7	415.72	374.67	382.88	356.59	261.61	298.34	288.46	
G66	261.84	282.24	385.06	346.48	353.29	327.51	234.89	270.98	261.84	
G67	234.94	256.04	356.68	317.91	324.73	300.05	209.06	244.54	234.94	
G68	209.76	229.93	327.88	290.41	296.81	272.74	184.53	218.57	209.76	
G69	186.29	206.05	300.42	264.11	269.63	246.26	162.73	194.13	186.29	
G70	163.75	182.07	272.78	238.19	243.71	220.84	140.57	170.8	163.75	
G71	141.35	159.44	245.79	212.54	218.11	196.45	121.13	148.22	141.35	
G72	121.64	138.62	220.01	188.57	193.2	172.47	103.51	128.28	121.64	
G73	103.98	118.91	195.43	165.19	170.06	150.68	88.53	110.51	103.98	

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