

Report No.:

Test Time: 2024/9/19 16:49:36

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226SCT175-35W
Lamp Type:
Luminous Width: 164 mm
Luminous Length: 164 mm
Luminous Height: 60 mm

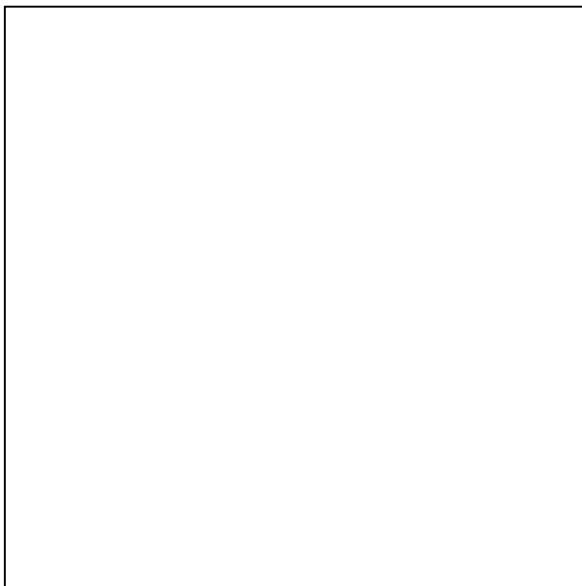
Voltage(V): 219.70 V
Current(A): 0.1640 A
Power(W): 35.07 W
Power Factor: 0.9680
Lamp Luminous Flux: 4192.89

Photometric Results

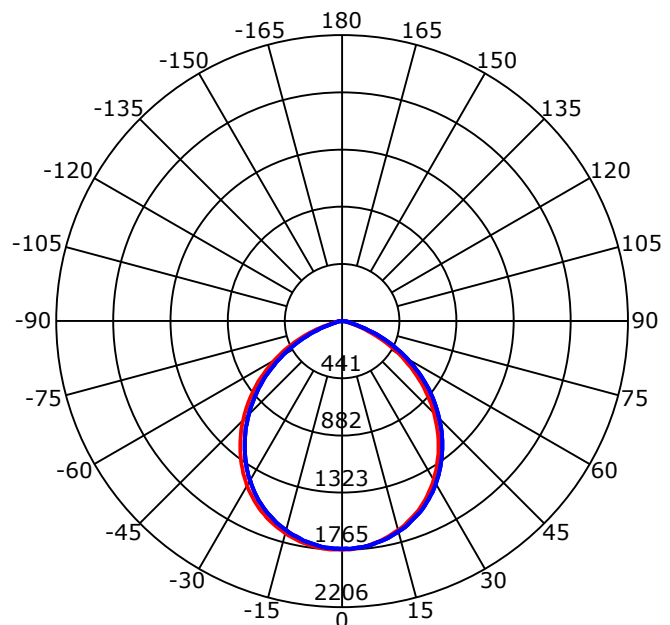
CIE Class: Direct
Luminaire Luminous Flux: 4192.886 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 119.56 lm/W
Beam Angle(50%) C0-180,C90-270: 100.2,100.4
Field Angle(10%) C0-180,C90-270: 143.4,143.5
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1764.66 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1764.29 cd
Effective Luminous Flux: 4078.21 lm
ERP(ϕ use)(120deg): 3638.70 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 100.2 deg,100.4 deg

C0-180 — C90-270 —

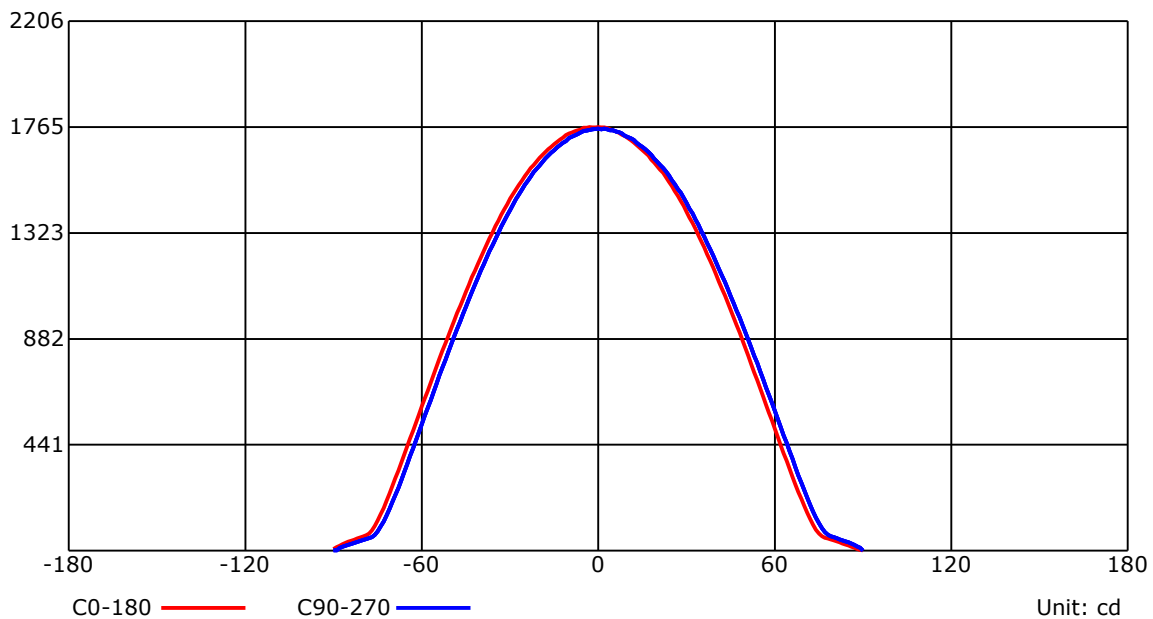
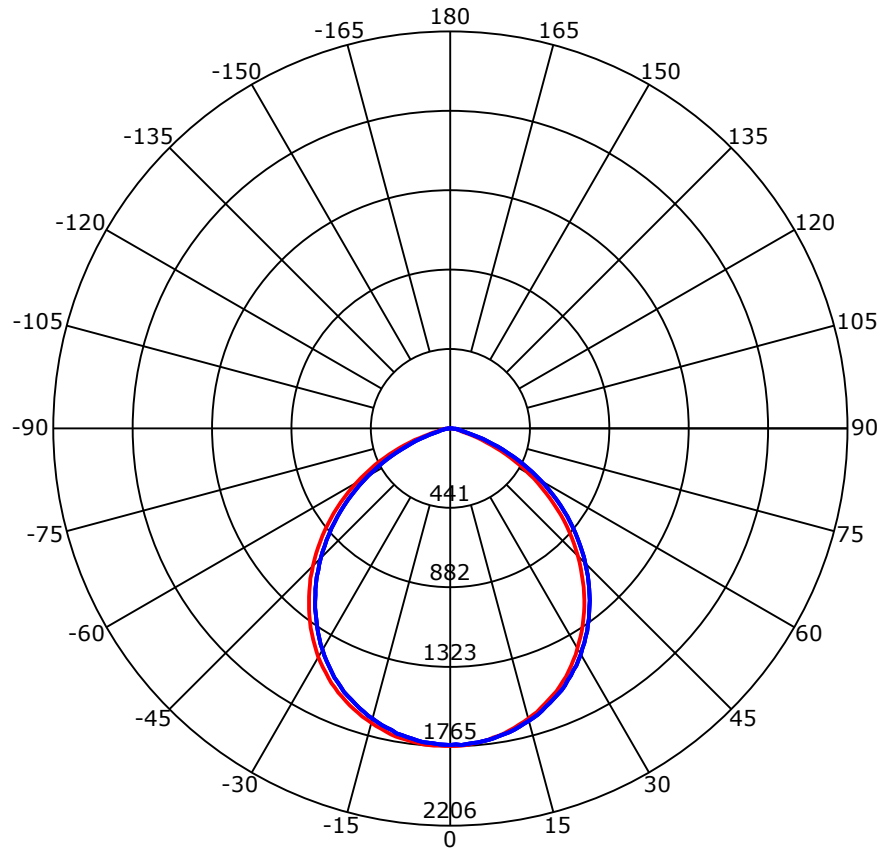
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/19 16:49:36

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



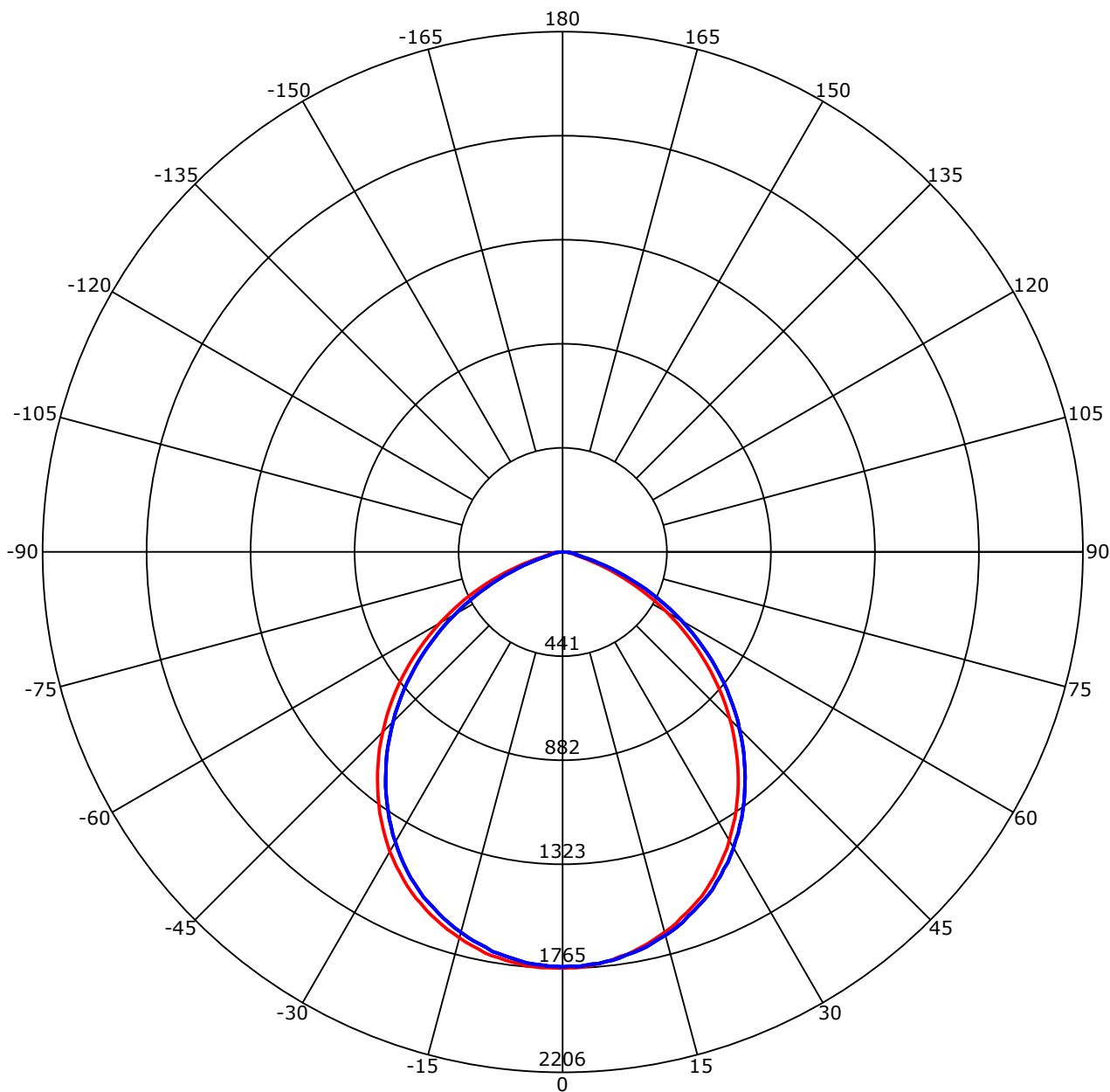
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

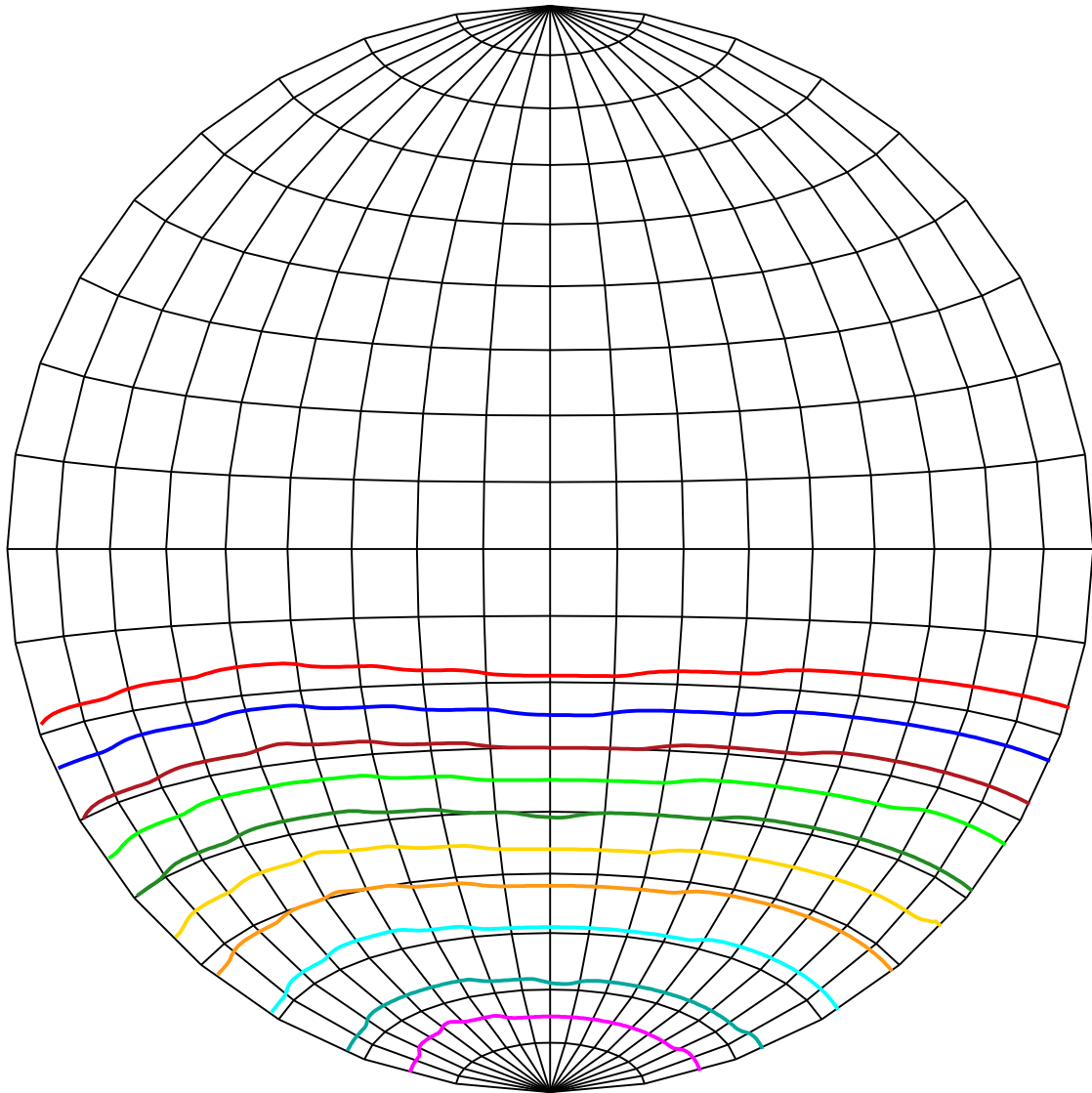
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1764.657 cd

1676.424(95%I _{max})	882.328(50%I _{max})
1588.191(90%I _{max})	705.863(40%I _{max})
1411.725(80%I _{max})	529.397(30%I _{max})
1235.26(70%I _{max})	352.931(20%I _{max})
1058.794(60%I _{max})	176.466(10%I _{max})

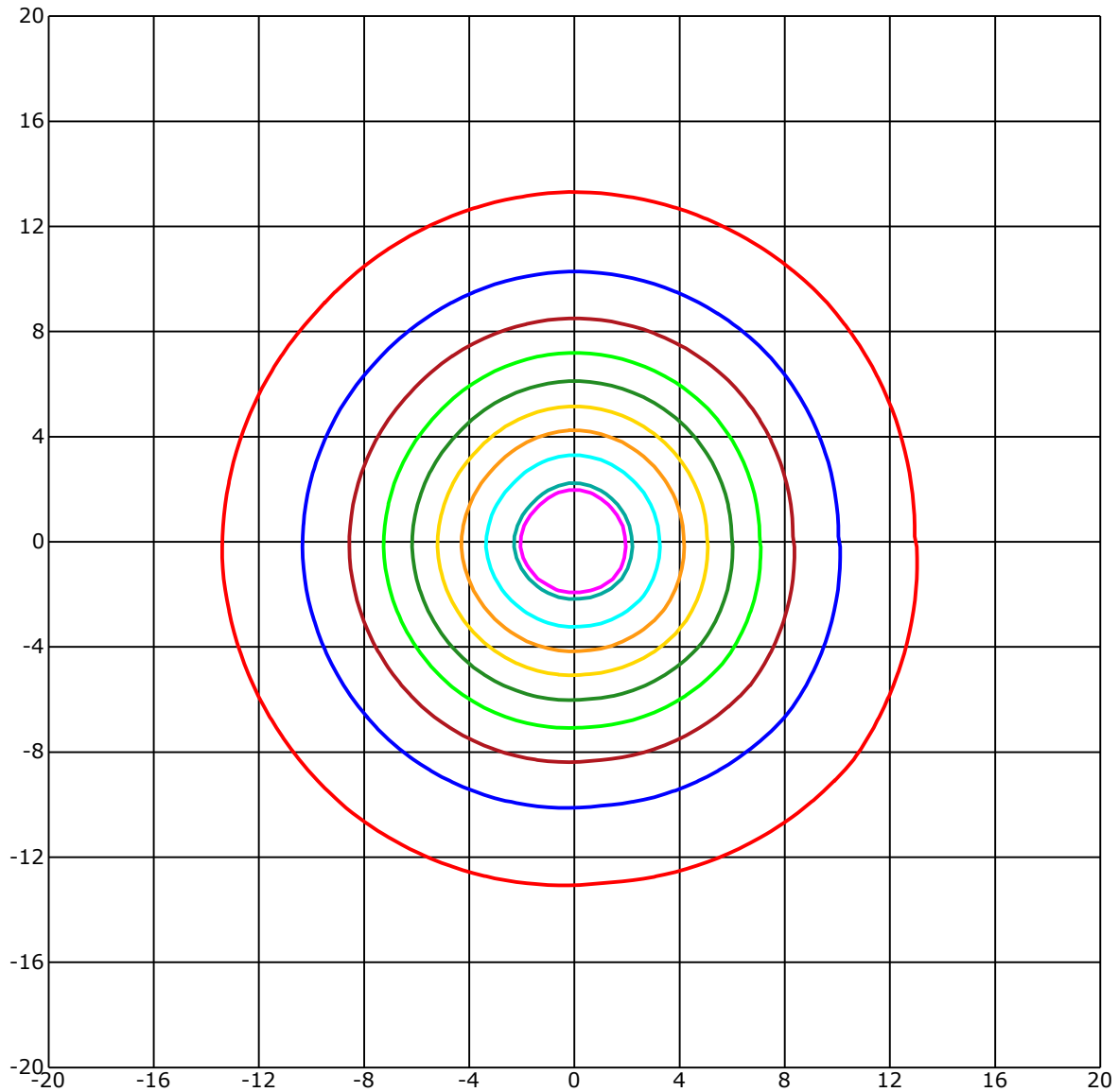
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ISOLX DIAGRAM



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

16.231(92%Emax)	8.821(50%Emax)
15.879(90%Emax)	7.057(40%Emax)
14.114(80%Emax)	5.293(30%Emax)
12.35(70%Emax)	3.529(20%Emax)
10.586(60%Emax)	1.764(10%Emax)

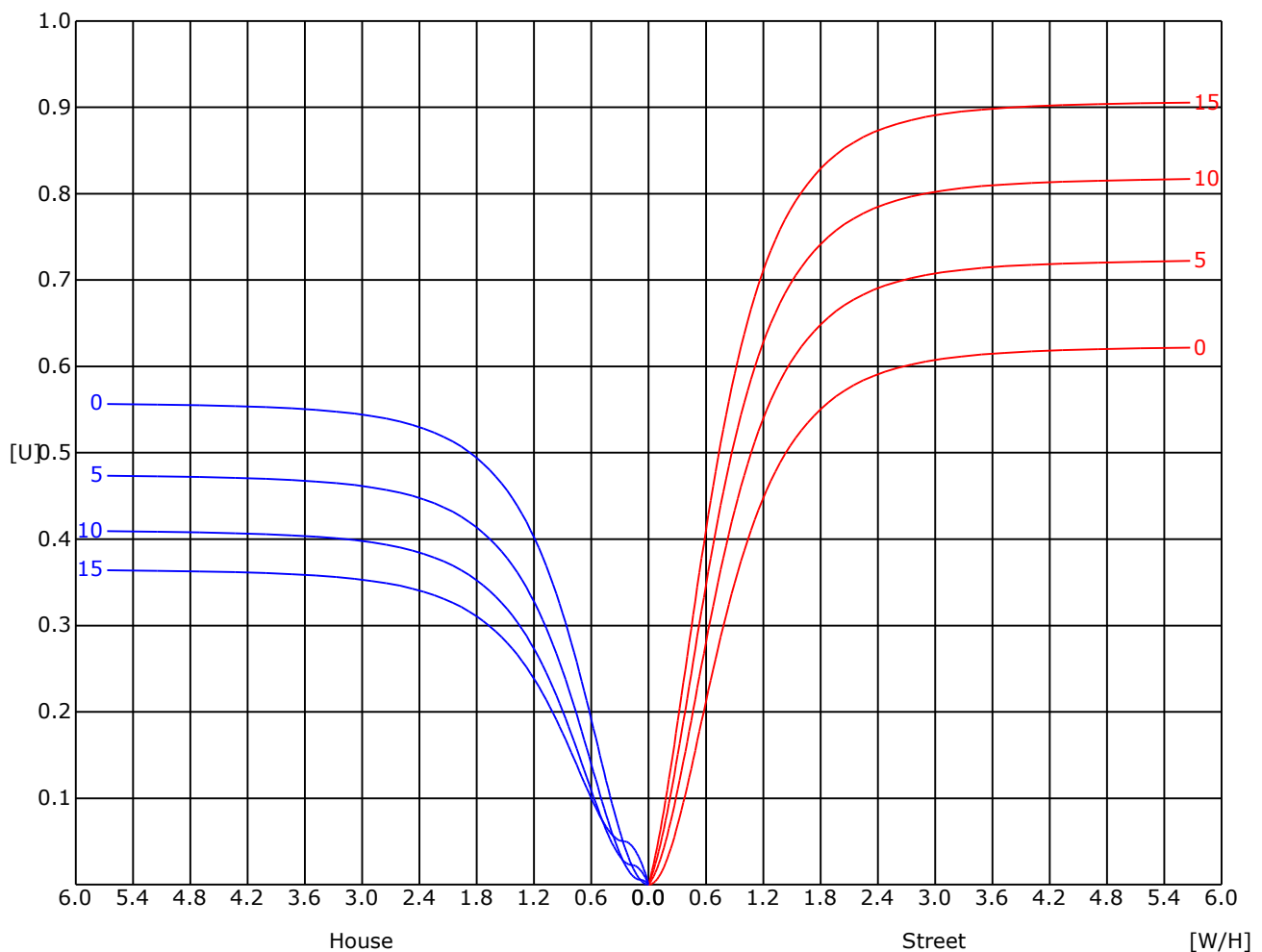
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UTILIZATION FACTOR DIAGRAM (ROAD)



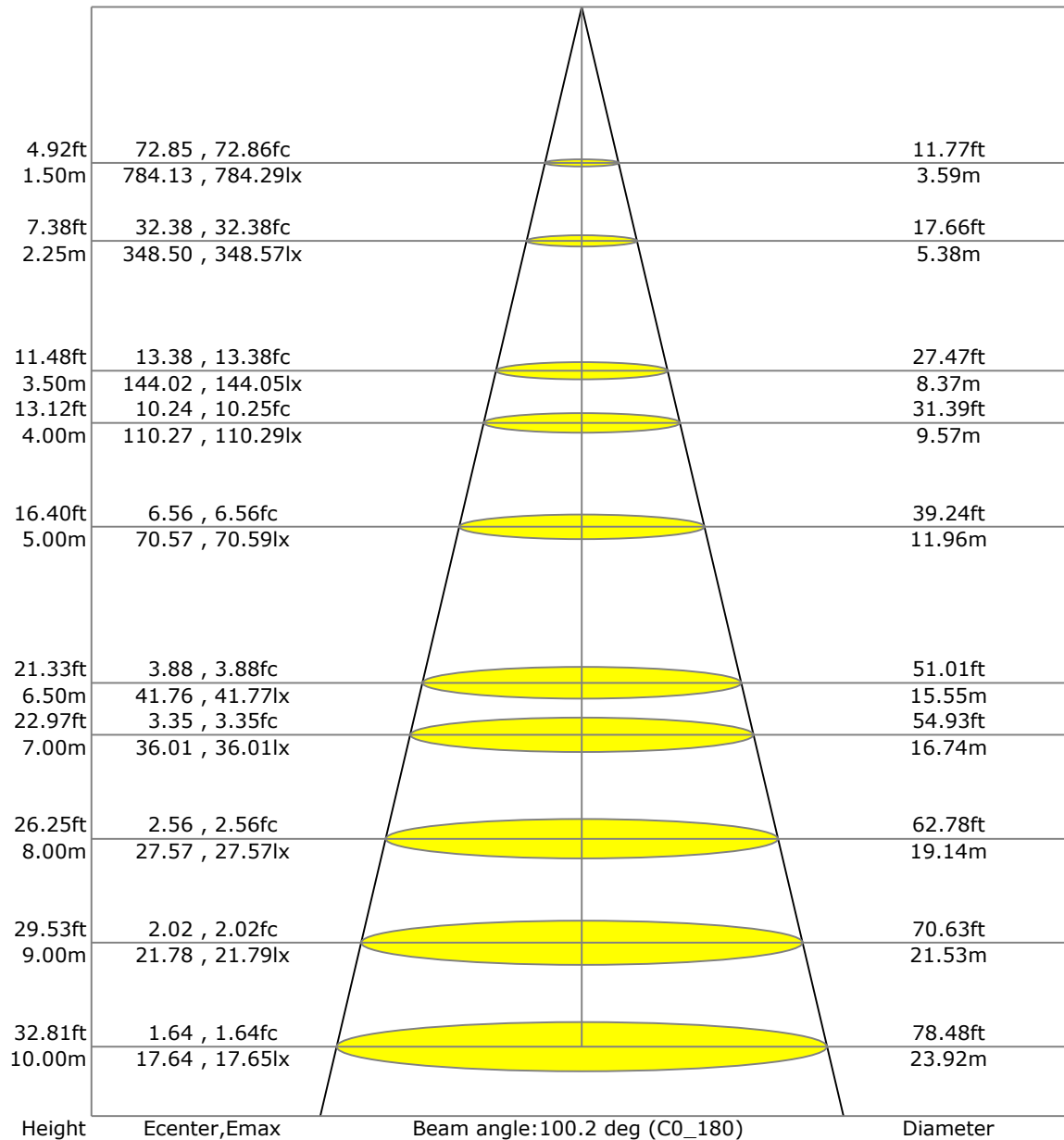
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C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
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 G Interval: 1.0 Deg
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 Test Distance: 6.81 m
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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	17.73	17.80	17.93	17.99	18.24	17.90	17.97	18.10	18.16	18.40
3H	17.79	17.86	18.00	18.06	18.30	17.94	18.01	18.15	18.20	18.45
4H	17.78	17.84	17.99	18.04	18.29	17.92	17.99	18.13	18.19	18.44
6H	17.75	17.82	17.97	18.02	18.27	17.90	17.96	18.11	18.16	18.41
8H	17.74	17.80	17.95	18.00	18.26	17.88	17.94	18.10	18.15	18.40
12H	17.72	17.78	17.94	17.99	18.24	17.87	17.93	18.09	18.13	18.39
4H 2H	18.69	18.76	18.90	18.95	19.20	19.07	19.14	19.28	19.33	19.58
3H	18.81	18.87	19.03	19.08	19.33	19.16	19.23	19.39	19.43	19.69
4H	18.80	18.86	19.03	19.07	19.33	19.15	19.21	19.38	19.42	19.68
6H	18.77	18.83	19.01	19.05	19.31	19.12	19.18	19.36	19.40	19.66
8H	18.76	18.81	19.00	19.04	19.30	19.10	19.16	19.35	19.38	19.65
12H	18.74	18.79	18.99	19.02	19.29	19.09	19.14	19.33	19.37	19.64
8H 4H	18.71	18.77	18.93	18.97	19.23	19.11	19.18	19.33	19.38	19.63
6H	18.83	18.88	19.08	19.11	19.39	19.21	19.26	19.46	19.50	19.77
8H	18.81	18.86	19.08	19.10	19.38	19.19	19.24	19.46	19.48	19.76
12H	18.80	18.84	19.07	19.09	19.37	19.18	19.21	19.44	19.47	19.75
12H 4H	18.85	18.90	19.10	19.13	19.40	19.25	19.30	19.50	19.53	19.80
6H	18.84	18.88	19.10	19.13	19.41	19.24	19.29	19.50	19.53	19.81

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ZONAL LUMINOUS FLUX TABLE

[illegible]

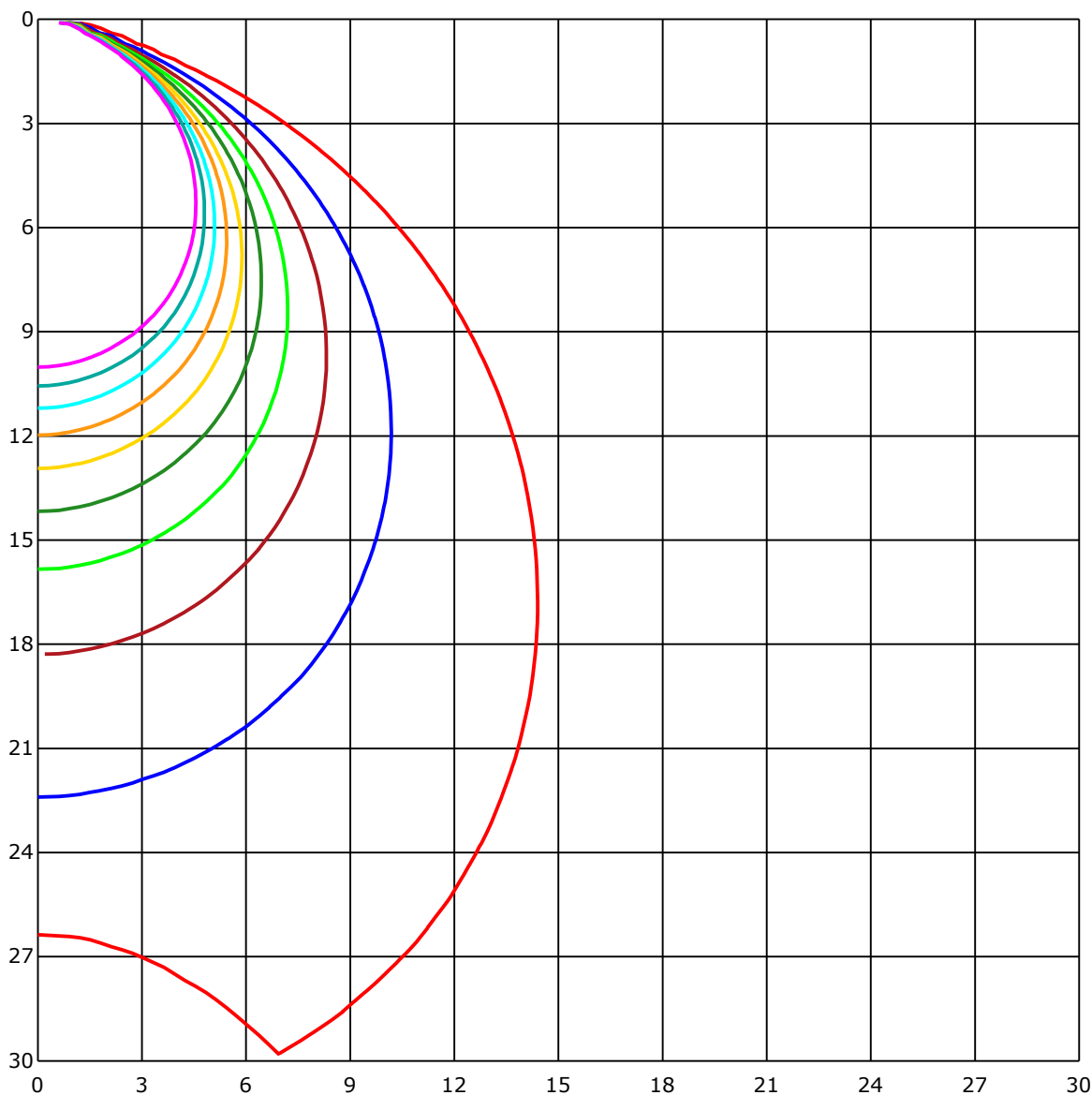
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

17.583	8.791
15.824	7.033
14.066	5.275
12.308	3.517
10.55	1.758

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/9/19 16:49:36

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1764.29	1752.69	1758.16	1759.19	1764.29	1752.69	1758.16	1759.19	1764.29	
G1	1762.9	1752.04	1755.66	1758.3	1763.54	1756.4	1756.17	1762.2	1762.9	
G2	1763.54	1752.04	1758.72	1758.91	1763.31	1750.56	1756.03	1760.44	1763.54	
G3	1760.85	1748.66	1754.92	1757.61	1764.66	1748.98	1752.46	1758.03	1760.85	
G4	1754.96	1744.58	1751.49	1750.56	1761.6	1746.39	1750.74	1758.63	1754.96	
G5	1751.9	1743.32	1751.25	1747.82	1761.55	1744.48	1748.24	1753.48	1751.9	
G6	1746.66	1737.94	1746.11	1741.7	1754.73	1743.19	1742.3	1751.39	1746.66	
G7	1741.19	1735.49	1743.0	1737.3	1751.86	1736.23	1735.86	1745.88	1741.19	
G8	1732.1	1728.11	1737.76	1729.64	1747.03	1729.6	1729.92	1743.51	1732.1	
G9	1727.32	1720.28	1729.32	1722.64	1741.52	1724.82	1724.45	1735.58	1727.32	
G10	1719.39	1711.93	1723.89	1716.19	1737.76	1716.7	1719.58	1730.2	1719.39	
G11	1709.75	1707.66	1717.86	1707.8	1730.85	1716.52	1706.5	1723.15	1709.75	
G12	1700.38	1696.35	1710.95	1698.85	1720.65	1702.51	1698.8	1720.23	1700.38	
G13	1690.32	1688.32	1699.78	1689.2	1712.16	1694.77	1690.69	1706.97	1690.32	
G14	1679.88	1677.1	1690.41	1678.49	1703.16	1685.26	1680.53	1697.88	1679.88	
G15	1668.61	1669.91	1681.69	1666.15	1693.52	1676.22	1668.47	1686.88	1668.61	
G16	1657.81	1655.12	1672.42	1655.81	1682.02	1662.95	1658.09	1678.58	1657.81	
G17	1646.21	1641.9	1661.15	1642.13	1673.34	1651.27	1645.75	1666.11	1646.21	
G18	1629.15	1630.45	1649.18	1631.33	1660.64	1637.91	1633.74	1654.1	1629.15	
G19	1616.67	1620.61	1633.13	1615.14	1648.3	1626.09	1619.45	1641.34	1616.67	
G20	1601.41	1603.27	1620.85	1601.88	1636.15	1612.78	1604.43	1630.54	1601.41	
G21	1587.36	1591.3	1606.75	1587.27	1622.33	1599.84	1590.93	1613.24	1587.36	
G22	1573.87	1573.08	1593.58	1571.92	1606.0	1582.82	1576.93	1602.11	1573.87	
G23	1555.78	1562.04	1579.8	1556.01	1593.81	1570.85	1558.61	1585.09	1555.78	
G24	1536.39	1541.54	1563.76	1539.69	1576.83	1551.84	1540.94	1570.85	1536.39	
G25	1519.84	1526.15	1543.07	1522.85	1561.11	1538.94	1524.94	1553.88	1519.84	
G26	1498.13	1508.8	1527.4	1507.32	1542.47	1519.1	1504.77	1537.51	1498.13	
G27	1477.45	1489.88	1506.67	1485.84	1523.22	1507.32	1483.71	1519.33	1477.45	
G28	1456.3	1475.97	1491.5	1469.33	1505.23	1484.13	1464.33	1506.06	1456.3	
G29	1437.2	1456.3	1469.38	1449.39	1485.38	1466.92	1442.44	1484.73	1437.2	
G30	1411.78	1435.8	1448.56	1430.47	1467.11	1446.98	1418.88	1466.04	1411.78	
G31	1387.81	1415.26	1424.77	1408.16	1443.41	1429.96	1398.38	1445.64	1387.81	
G32	1364.15	1393.74	1404.92	1388.13	1420.78	1406.36	1373.06	1427.83	1364.15	
G33	1341.29	1372.59	1379.69	1363.5	1398.89	1386.6	1349.92	1404.41	1341.29	
G34	1314.48	1347.92	1357.99	1340.22	1374.4	1361.79	1323.48	1383.17	1314.48	
G35	1288.84	1326.17	1331.69	1315.97	1352.33	1340.73	1298.3	1362.25	1288.84	
G36	1263.98	1300.15	1308.83	1291.44	1325.75	1314.9	1273.12	1336.79	1263.98	

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C Interval: 45.0 Deg

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1235.51	1276.22	1281.42	1267.0	1300.15	1292.41	1247.7	1312.68	1235.51	
G38	1207.91	1248.49	1254.71	1238.8	1274.32	1268.02	1219.88	1290.65	1207.91	
G39	1180.23	1225.72	1229.34	1211.9	1247.1	1241.35	1191.68	1261.43	1180.23	
G40	1151.66	1196.27	1202.21	1186.67	1221.13	1213.01	1165.34	1238.57	1151.66	
G41	1120.96	1171.18	1174.34	1157.78	1194.14	1185.56	1136.63	1208.98	1120.96	
G42	1092.02	1139.6	1146.65	1130.84	1165.8	1157.5	1108.95	1181.2	1092.02	
G43	1063.27	1112.42	1119.15	1100.04	1139.32	1128.75	1076.62	1152.59	1063.27	
G44	1033.21	1082.28	1089.84	1070.87	1107.69	1101.02	1047.68	1124.85	1033.21	
G45	1001.63	1052.0	1059.37	1039.2	1079.54	1071.61	1016.01	1094.99	1001.63	
G46	971.49	1022.04	1031.78	1009.1	1048.94	1041.14	987.63	1064.01	971.49	
G47	940.97	991.98	1001.12	978.26	1019.81	1012.16	955.3	1033.68	940.97	
G48	908.23	962.07	971.21	949.92	989.43	979.23	923.77	1005.3	908.23	
G49	875.35	930.21	939.3	916.07	958.18	950.11	892.65	972.83	875.35	
G50	843.07	897.15	909.02	884.07	927.06	917.92	861.16	941.34	843.07	
G51	810.84	866.4	877.53	849.98	895.66	884.95	827.91	908.69	810.84	
G52	777.08	833.7	845.3	817.01	863.89	852.21	794.56	877.34	777.08	
G53	743.46	800.54	813.07	784.31	832.4	818.82	762.14	843.58	743.46	
G54	709.69	765.07	782.23	751.2	800.96	784.96	731.07	810.98	709.69	
G55	676.81	732.19	747.68	715.44	767.01	750.04	694.85	775.5	676.81	
G56	643.14	697.5	714.93	683.12	733.81	716.93	661.88	741.41	643.14	
G57	608.45	663.32	680.94	648.43	700.7	683.77	627.7	707.24	608.45	
G58	574.92	629.18	649.45	613.88	666.75	648.06	595.89	672.45	574.92	
G59	541.63	596.07	615.04	581.05	633.68	614.02	561.8	637.67	541.63	
G60	506.71	562.36	582.48	547.28	601.36	579.79	526.74	606.23	506.71	
G61	474.06	528.97	548.4	513.52	567.5	548.35	493.91	569.64	474.06	
G62	439.32	494.93	514.5	479.85	533.42	514.22	460.33	535.92	439.32	
G63	406.3	461.67	480.6	445.72	499.98	480.6	426.52	502.86	406.3	
G64	373.37	428.7	448.32	413.67	467.38	446.56	393.5	469.37	373.37	
G65	340.31	396.79	414.09	381.21	433.66	414.0	359.65	435.66	340.31	
G66	306.59	364.52	382.93	349.17	400.88	381.4	326.44	402.5	306.59	
G67	275.29	333.86	347.54	317.95	367.35	349.54	293.24	369.43	275.29	
G68	245.0	301.35	313.69	287.86	333.72	318.28	262.26	337.94	245.0	
G69	214.86	271.49	282.38	257.9	301.44	287.25	231.74	306.31	214.86	
G70	185.74	242.55	251.03	229.05	269.58	257.39	202.57	275.8	185.74	
G71	158.05	214.81	220.94	201.64	237.86	229.01	174.0	246.49	158.05	
G72	131.94	188.38	191.12	175.35	207.76	201.09	146.46	217.92	131.94	
G73	108.15	163.15	163.1	150.4	178.13	174.93	121.88	190.65	108.15	

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C Interval: 45.0 Deg

Test Speed: High

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Humidity: 60

Test Distance: 6.81 m

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