

Report No.:

Test Time: 2024/9/12 8:41:13

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

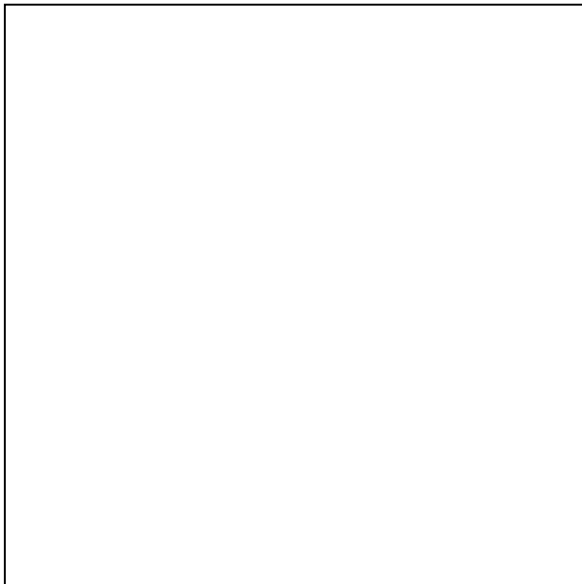
Voltage(V): 219.80 V
Current(A): 0.1620 A
Power(W): 34.70 W
Power Factor: 0.9700
Lamp Luminous Flux: 3855.23

Photometric Results

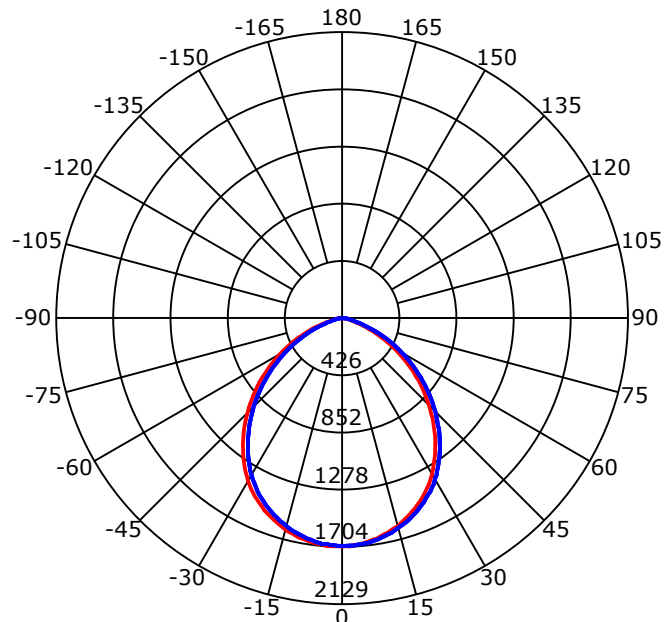
CIE Class: Direct
Luminaire Luminous Flux: 3855.234 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 111.10 lm/W
Beam Angle(50%) C0-180,C90-270: 96.8,96.8
Field Angle(10%) C0-180,C90-270: 142.6,142.6
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1703.53 cd
Max.Intensity Angle: C=135 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1701.59 cd
Effective Luminous Flux: 3739.99 lm
ERP(ϕ use)(120deg): 3374.25 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 96.8 deg,96.8 deg

C0-180 — C90-270 —

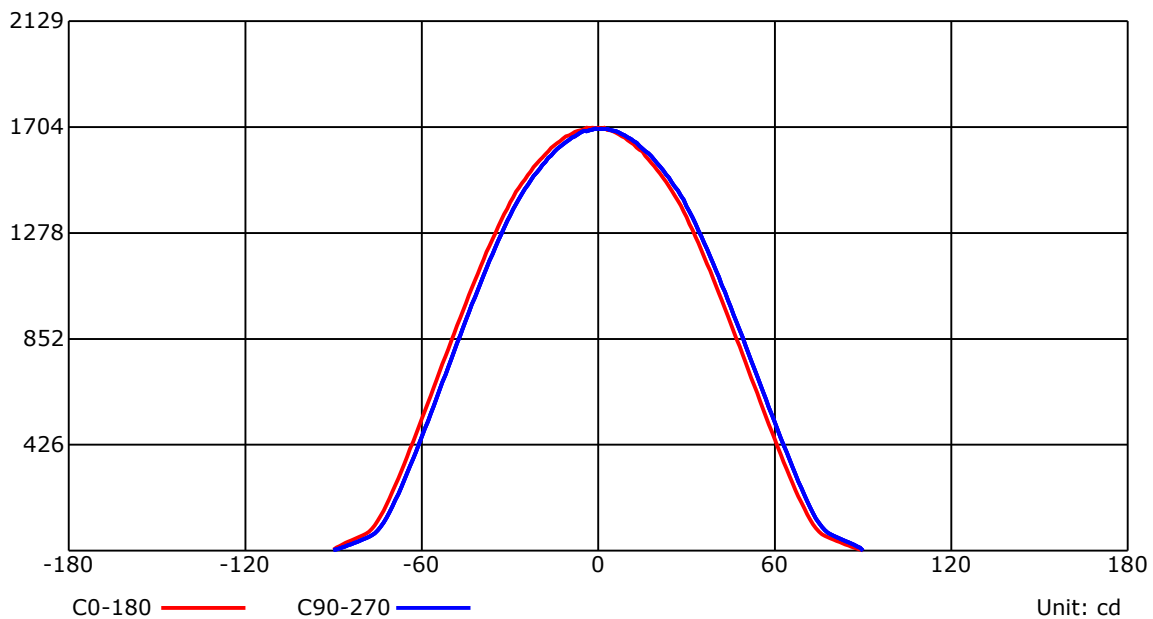
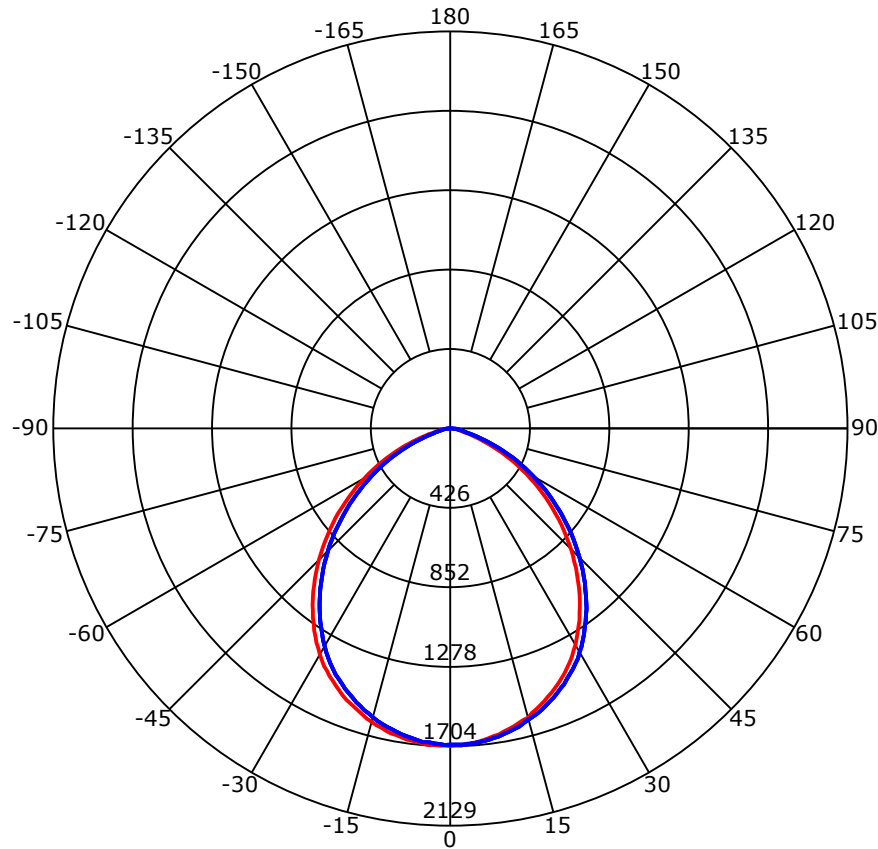
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 8:41:13

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



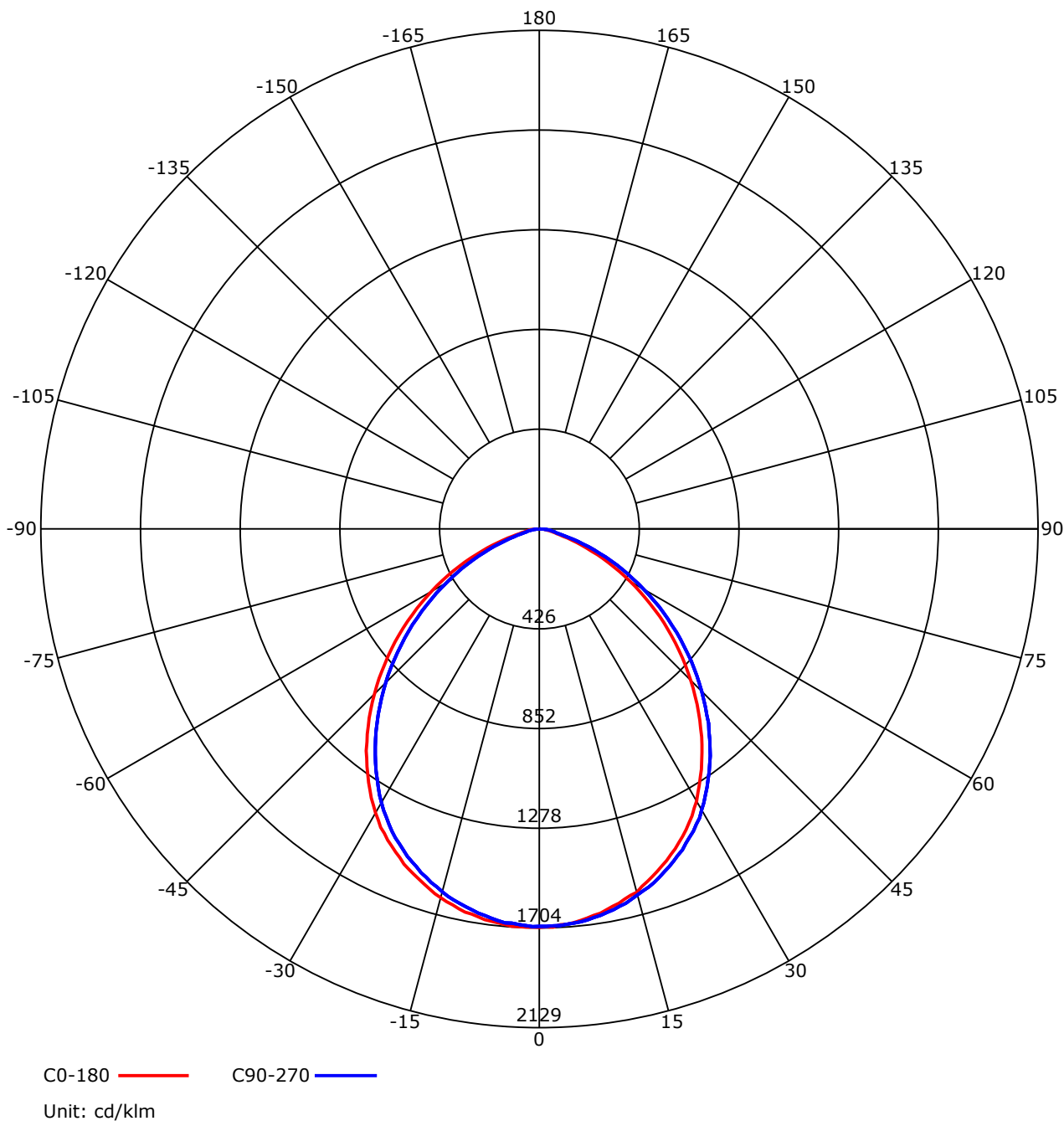
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Luminous Intensity Distribution Curve



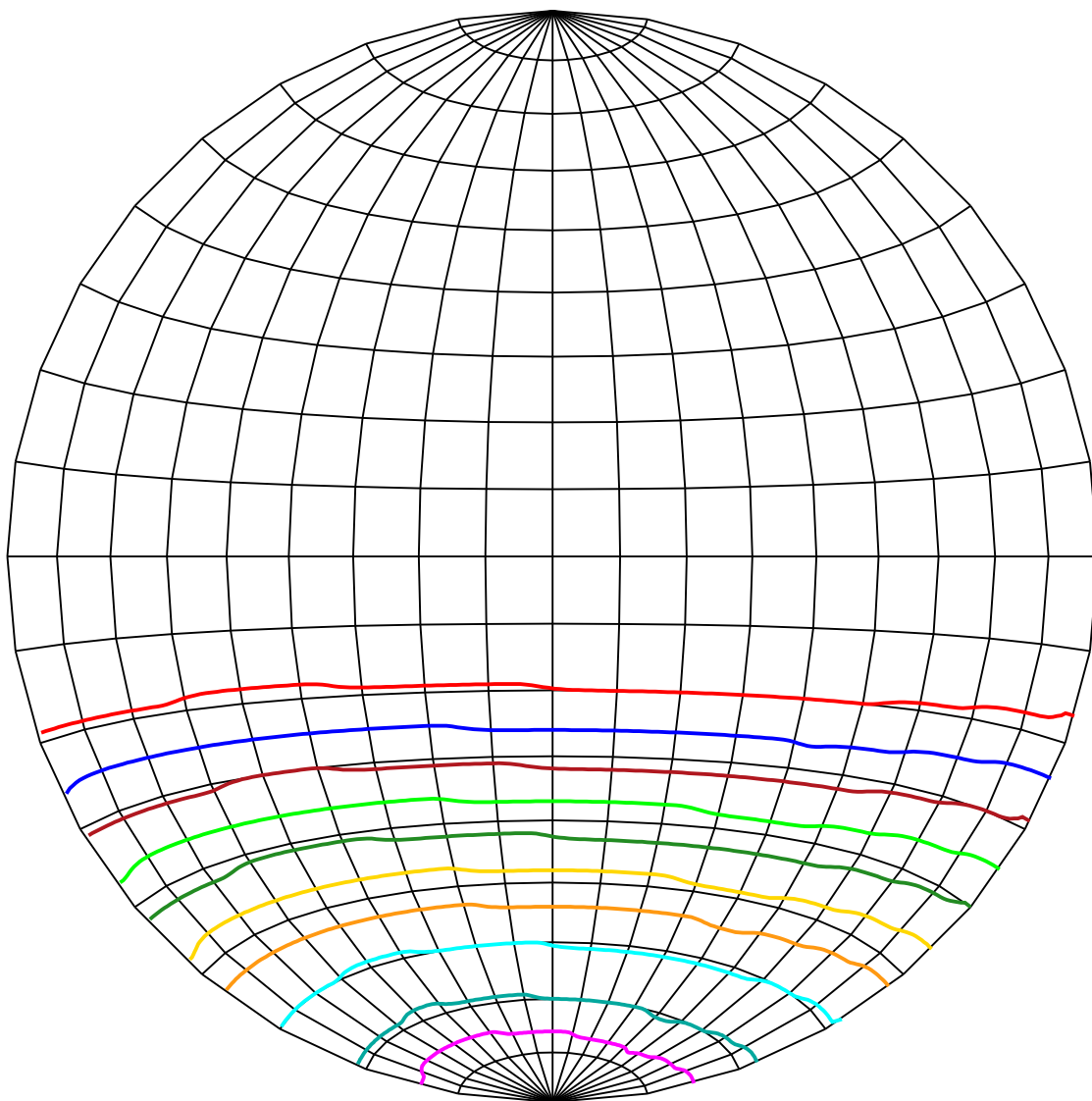
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1703.533 cd

1618.357(95%Imax)	851.767(50%Imax)
1533.18(90%Imax)	681.413(40%Imax)
1362.827(80%Imax)	511.06(30%Imax)
1192.473(70%Imax)	340.707(20%Imax)
1022.12(60%Imax)	170.353(10%Imax)

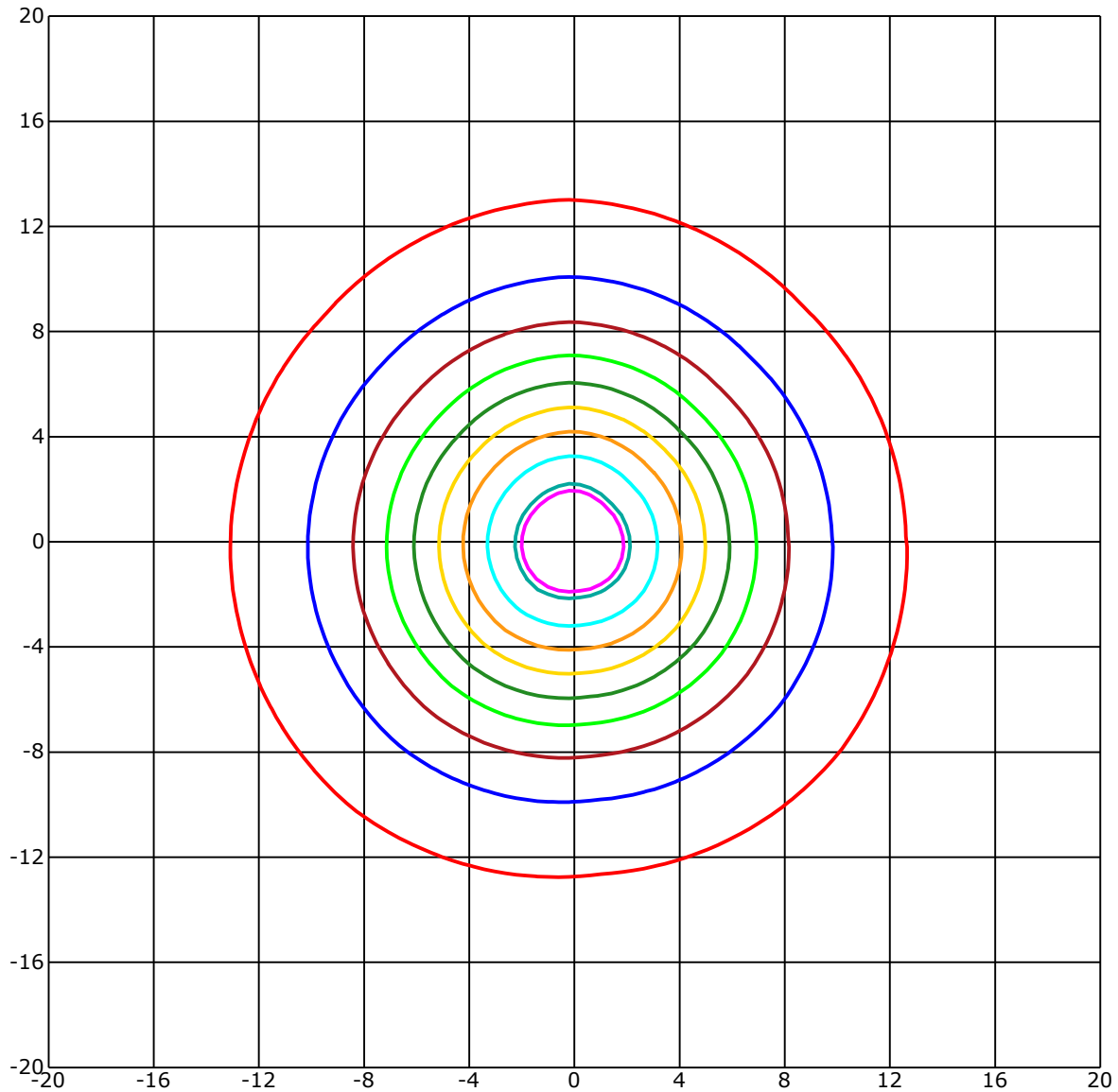
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ISOLX DIAGRAM



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

15.655(92%Emax)	8.508(50%Emax)
15.314(90%Emax)	6.806(40%Emax)
13.613(80%Emax)	5.105(30%Emax)
11.911(70%Emax)	3.403(20%Emax)
10.21(60%Emax)	1.702(10%Emax)

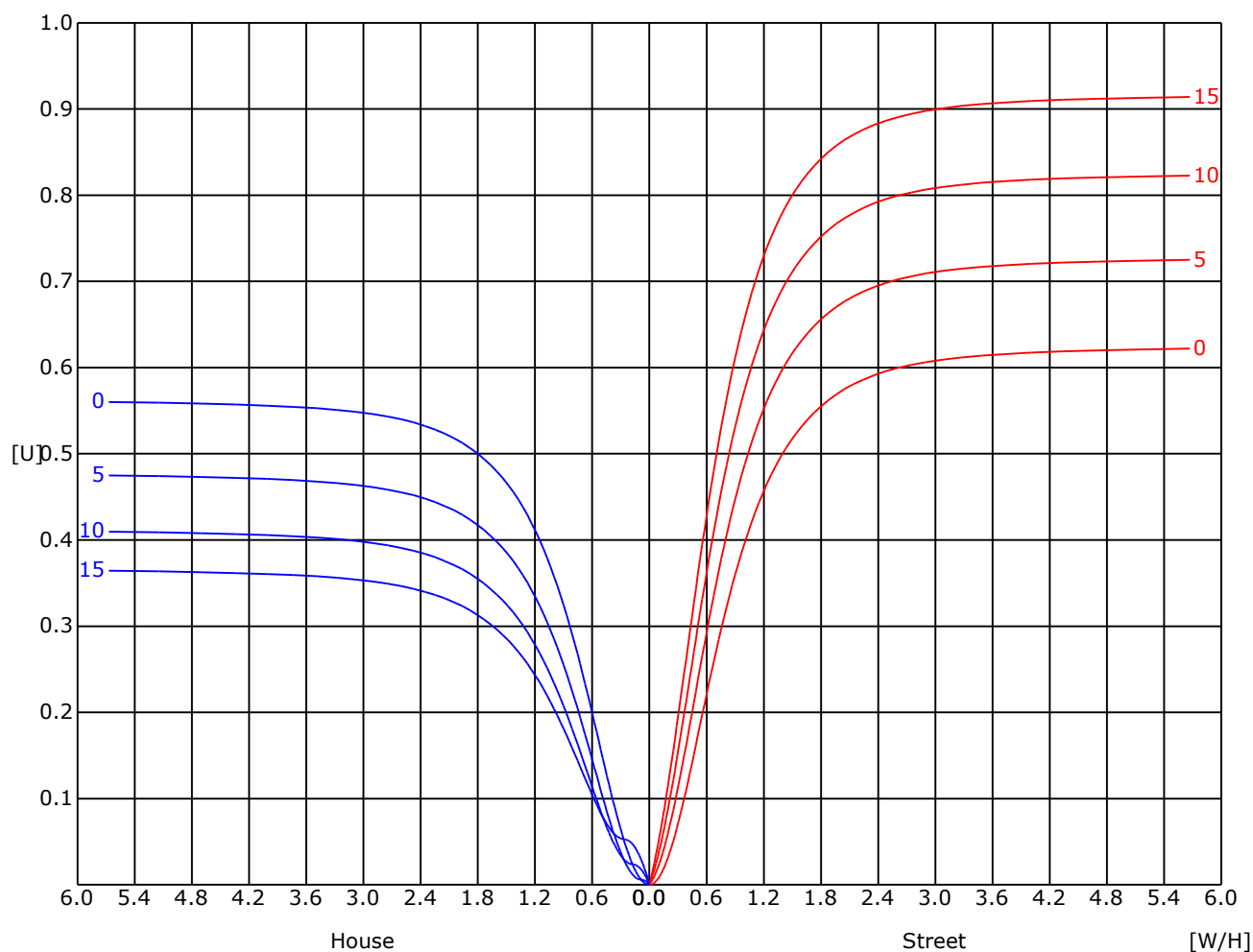
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UTILIZATION FACTOR DIAGRAM (ROAD)



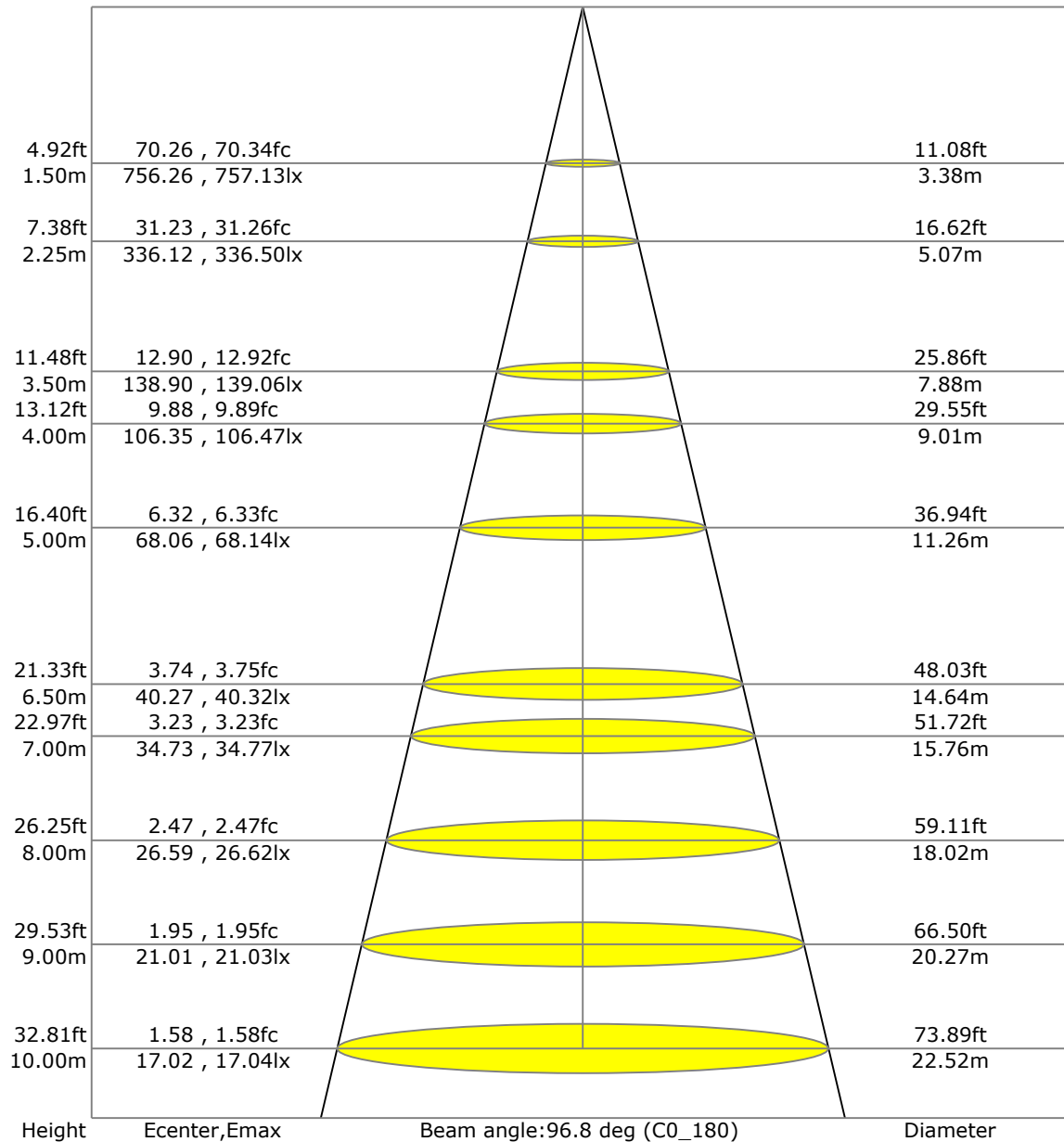
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LX-DISTANCE DIAGRAM



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

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

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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	17.16	17.23	17.36	17.42	17.66	17.36	17.43	17.56	17.61	17.86
3H	17.20	17.27	17.41	17.46	17.71	17.38	17.45	17.59	17.64	17.89
4H	17.18	17.25	17.40	17.45	17.70	17.36	17.42	17.57	17.62	17.87
6H	17.16	17.22	17.37	17.42	17.68	17.33	17.40	17.55	17.60	17.85
8H	17.14	17.21	17.36	17.41	17.66	17.32	17.38	17.54	17.58	17.84
12H	17.13	17.19	17.35	17.40	17.65	17.30	17.36	17.52	17.57	17.83
4H 2H	18.03	18.09	18.24	18.29	18.54	18.44	18.50	18.65	18.70	18.95
3H	18.10	18.16	18.32	18.37	18.62	18.49	18.55	18.71	18.76	19.01
4H	18.09	18.15	18.32	18.36	18.62	18.47	18.53	18.70	18.74	19.00
6H	18.06	18.12	18.30	18.34	18.60	18.44	18.50	18.68	18.72	18.98
8H	18.05	18.10	18.29	18.32	18.59	18.43	18.48	18.67	18.71	18.97
12H	18.03	18.08	18.28	18.31	18.58	18.41	18.46	18.66	18.69	18.96
8H 4H	18.07	18.13	18.29	18.34	18.59	18.52	18.58	18.74	18.79	19.04
6H	18.15	18.19	18.40	18.43	18.70	18.58	18.63	18.83	18.86	19.14
8H	18.13	18.18	18.39	18.42	18.70	18.56	18.61	18.82	18.85	19.13
12H	18.11	18.15	18.38	18.41	18.69	18.54	18.58	18.81	18.84	19.12
12H 4H	18.17	18.22	18.42	18.46	18.73	18.63	18.68	18.88	18.92	19.19
6H	18.16	18.21	18.42	18.45	18.73	18.62	18.67	18.89	18.91	19.19

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ZONAL LUMINOUS FLUX TABLE

[illegible]

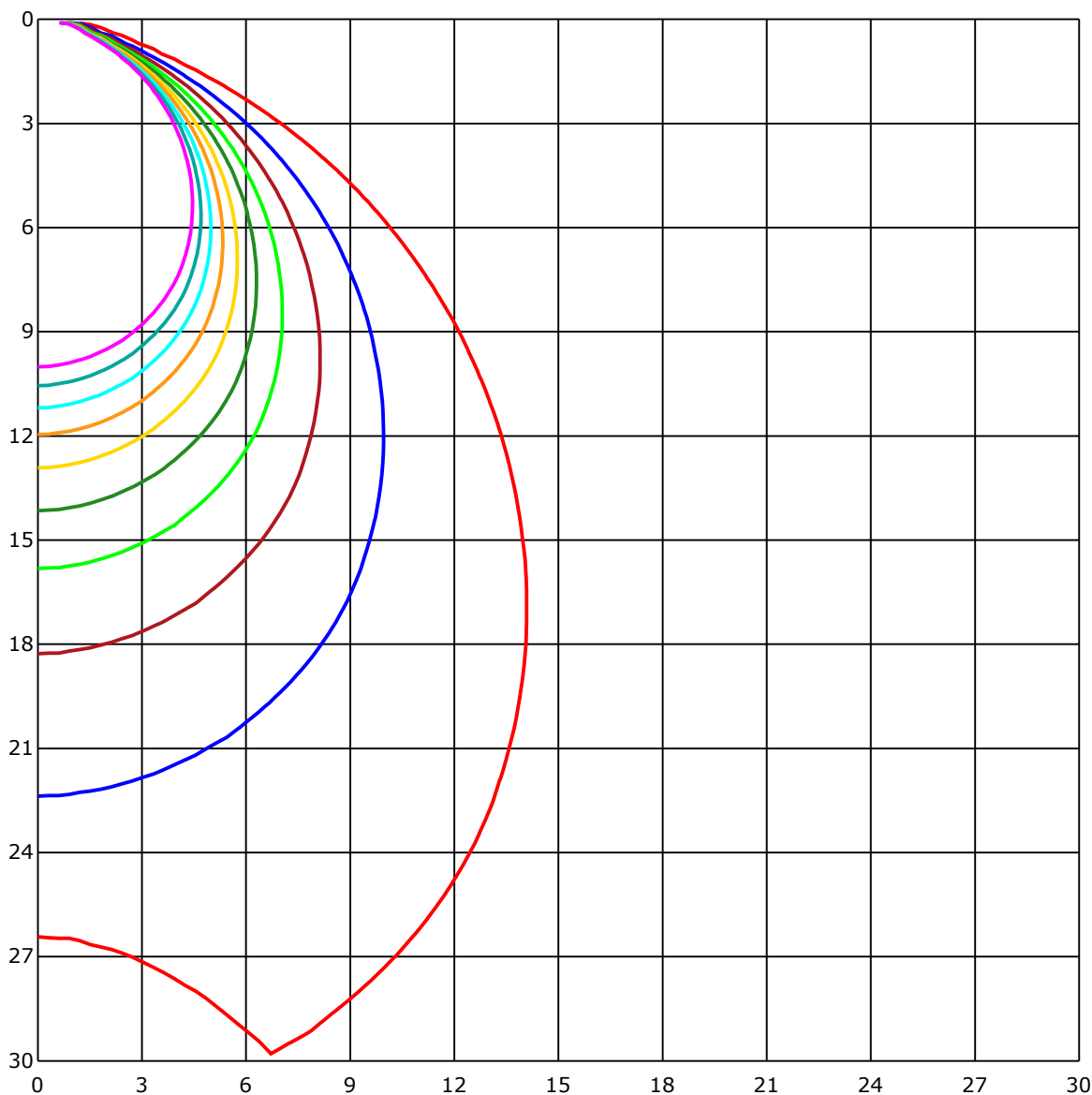
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

16.995	8.497
15.295	6.798
13.596	5.098
11.896	3.399
10.197	1.699

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1701.59	1691.57	1696.3	1699.13	1701.59	1691.57	1696.3	1699.13	1701.59	
G1	1698.99	1690.73	1696.39	1698.76	1699.87	1692.82	1697.78	1698.9	1698.99	
G2	1701.54	1689.06	1695.7	1703.53	1700.89	1696.86	1693.66	1697.69	1701.54	
G3	1692.45	1687.95	1695.46	1694.21	1700.06	1693.01	1691.01	1695.79	1692.45	
G4	1691.1	1681.04	1692.13	1692.59	1700.66	1691.75	1686.56	1694.12	1691.1	
G5	1686.65	1673.44	1689.11	1688.93	1694.49	1689.81	1688.65	1691.66	1686.65	
G6	1680.07	1668.89	1686.51	1685.82	1691.01	1689.67	1681.32	1683.82	1680.07	
G7	1673.81	1665.69	1681.97	1681.83	1687.95	1685.96	1674.41	1678.72	1673.81	
G8	1665.92	1656.0	1675.43	1676.03	1684.29	1679.37	1666.9	1675.06	1665.92	
G9	1660.96	1646.95	1670.7	1668.24	1676.26	1676.68	1661.24	1668.66	1660.96	
G10	1650.2	1640.56	1662.63	1659.75	1669.86	1673.67	1652.2	1659.15	1650.2	
G11	1641.34	1628.91	1656.23	1650.71	1666.34	1662.4	1643.71	1652.1	1641.34	
G12	1634.2	1617.69	1646.95	1643.34	1657.39	1657.62	1634.57	1644.73	1634.2	
G13	1621.45	1609.16	1640.65	1633.78	1646.68	1653.35	1625.71	1633.18	1621.45	
G14	1611.66	1597.75	1627.66	1623.81	1639.67	1642.22	1616.39	1624.37	1611.66	
G15	1605.87	1583.51	1617.6	1612.03	1629.7	1629.61	1603.92	1613.94	1605.87	
G16	1587.87	1570.57	1606.98	1601.6	1619.45	1619.69	1589.63	1602.76	1587.87	
G17	1573.82	1558.14	1597.84	1590.52	1606.14	1613.47	1579.48	1592.88	1573.82	
G18	1560.05	1544.09	1586.76	1575.44	1594.09	1599.88	1563.8	1576.74	1560.05	
G19	1546.41	1530.37	1572.52	1561.99	1581.24	1585.46	1551.7	1567.7	1546.41	
G20	1530.6	1514.27	1557.91	1547.9	1569.14	1573.59	1535.14	1550.03	1530.6	
G21	1516.55	1498.51	1545.11	1534.45	1556.61	1564.82	1520.26	1536.49	1516.55	
G22	1499.39	1483.15	1530.18	1519.1	1543.07	1547.71	1506.53	1521.23	1499.39	
G23	1483.76	1464.19	1513.72	1503.37	1524.66	1531.85	1488.07	1505.28	1483.76	
G24	1465.58	1446.75	1500.08	1489.04	1510.1	1517.52	1471.14	1488.81	1465.58	
G25	1447.58	1428.2	1480.65	1468.59	1492.66	1500.73	1455.38	1470.86	1447.58	
G26	1428.34	1410.16	1463.54	1450.78	1478.01	1484.41	1435.9	1454.31	1428.34	
G27	1407.47	1390.73	1448.09	1433.95	1458.53	1467.71	1414.56	1434.27	1407.47	
G28	1388.08	1364.99	1428.11	1411.13	1443.32	1450.27	1393.0	1413.64	1388.08	
G29	1363.23	1342.08	1410.85	1390.91	1420.41	1431.45	1372.69	1391.79	1363.23	
G30	1341.85	1318.47	1384.79	1367.77	1400.47	1411.64	1348.71	1369.16	1341.85	
G31	1313.6	1295.33	1364.34	1343.15	1375.52	1387.71	1325.99	1347.32	1313.6	
G32	1289.26	1266.76	1338.65	1318.7	1354.04	1364.57	1298.21	1321.44	1289.26	
G33	1261.57	1242.14	1315.32	1292.36	1329.05	1345.88	1272.79	1294.5	1261.57	
G34	1237.64	1212.09	1288.42	1267.51	1305.02	1319.91	1247.29	1269.08	1237.64	
G35	1208.7	1188.62	1264.17	1240.56	1277.71	1292.69	1220.48	1243.34	1208.7	
G36	1180.92	1157.92	1237.04	1216.91	1253.36	1266.81	1192.42	1216.54	1180.92	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1152.72	1131.07	1212.74	1185.65	1224.93	1241.4	1165.48	1189.32	1152.72	
G38	1125.87	1101.57	1182.82	1158.57	1201.23	1215.43	1136.35	1161.58	1125.87	
G39	1094.34	1071.8	1155.0	1131.9	1170.67	1188.25	1107.46	1133.85	1094.34	
G40	1065.21	1042.86	1126.94	1102.04	1143.13	1158.85	1077.5	1106.86	1065.21	
G41	1035.72	1013.6	1100.74	1073.19	1113.82	1132.09	1048.89	1075.32	1035.72	
G42	1007.2	983.45	1067.3	1042.03	1086.59	1100.78	1018.51	1047.5	1007.2	
G43	973.9	953.08	1040.12	1012.85	1056.17	1072.17	989.9	1017.45	973.9	
G44	944.45	921.82	1008.73	983.22	1027.09	1041.93	957.76	988.27	944.45	
G45	913.33	891.72	980.34	951.31	995.6	1013.78	928.54	957.34	913.33	
G46	882.26	859.91	948.25	920.29	966.39	982.43	897.47	928.08	882.26	
G47	851.93	829.25	919.5	889.86	935.78	951.78	865.7	895.06	851.93	
G48	821.55	797.53	887.55	858.7	905.31	920.43	834.12	864.59	821.55	
G49	789.92	766.69	858.56	827.3	873.26	890.61	802.54	834.63	789.92	
G50	758.34	735.2	825.08	797.11	843.49	860.93	770.77	803.56	758.34	
G51	726.53	705.24	794.79	765.25	811.49	829.67	739.88	772.02	726.53	
G52	694.67	673.2	764.28	735.34	782.18	798.6	707.65	739.79	694.67	
G53	665.31	643.42	734.27	702.64	750.46	766.64	677.97	708.91	665.31	
G54	634.01	611.7	700.09	671.34	719.2	735.8	644.91	678.53	634.01	
G55	600.29	579.98	670.0	639.34	686.27	703.99	613.46	645.09	600.29	
G56	569.78	548.35	638.55	608.92	655.25	671.62	581.46	613.83	569.78	
G57	538.61	518.86	608.92	577.66	624.04	641.71	551.04	582.72	538.61	
G58	507.73	488.99	575.94	546.4	593.24	609.52	519.78	551.69	507.73	
G59	476.84	458.8	545.57	515.66	561.01	577.29	489.04	519.83	476.84	
G60	447.62	427.87	515.33	485.79	530.64	546.26	458.2	489.64	447.62	
G61	416.32	398.23	484.31	454.72	499.98	515.93	428.98	458.38	416.32	
G62	387.24	369.2	453.6	424.3	469.42	484.17	398.51	428.61	387.24	
G63	356.96	339.8	424.85	394.1	438.53	454.49	369.9	398.83	356.96	
G64	327.69	310.95	395.68	365.21	409.69	424.25	340.03	369.76	327.69	
G65	299.59	282.57	365.63	335.58	378.01	393.97	311.93	339.61	299.59	
G66	272.23	254.65	335.99	306.31	348.56	364.7	283.31	311.46	272.23	
G67	243.47	228.08	307.43	278.44	319.3	335.3	255.07	282.76	243.47	
G68	217.55	202.52	278.4	251.73	291.1	306.82	228.31	255.35	217.55	
G69	193.02	178.18	251.59	225.16	262.95	279.14	204.1	228.82	193.02	
G70	169.74	155.13	224.27	199.79	237.17	251.27	178.59	203.03	169.74	
G71	146.36	133.52	198.44	175.53	210.32	224.69	155.13	178.32	146.36	
G72	125.68	113.58	173.68	152.9	185.55	198.77	133.33	155.13	125.68	
G73	106.34	95.81	151.6	131.48	161.67	174.56	113.67	133.24	106.34	

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