

Report No.:

Test Time: 2024/9/6 15:45:55

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): 41.29 W
Power Factor: 0.9810
Lamp Luminous Flux: 4407.14

Photometric Results

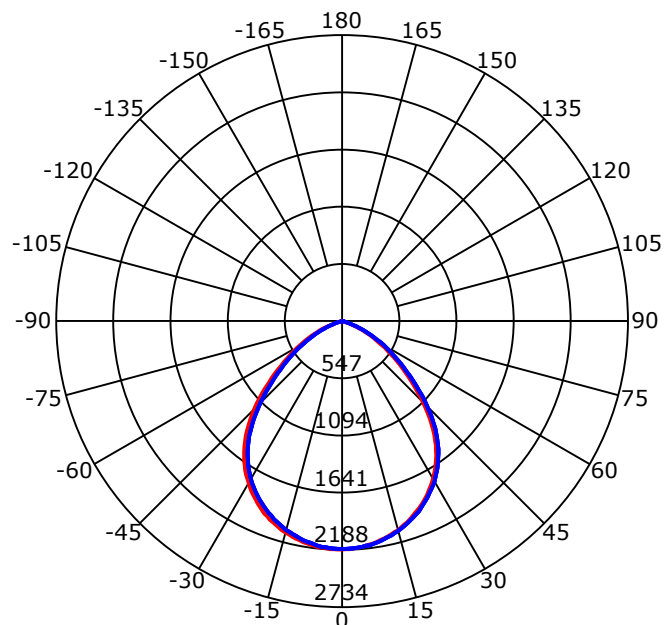
CIE Class: Direct
Luminaire Luminous Flux: 4407.136 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 106.74 lm/W
Beam Angle(50%) C0-180,C90-270: 91.7,91.4
Field Angle(10%) C0-180,C90-270: 133.3,133.1
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 2187.59 cd
Max.Intensity Angle: C=315 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2184.66 cd
Effective Luminous Flux: 4303.01 lm
ERP(ϕ use)(120deg): 4091.63 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 91.7 deg,91.4 deg

C0-180 — C90-270 —

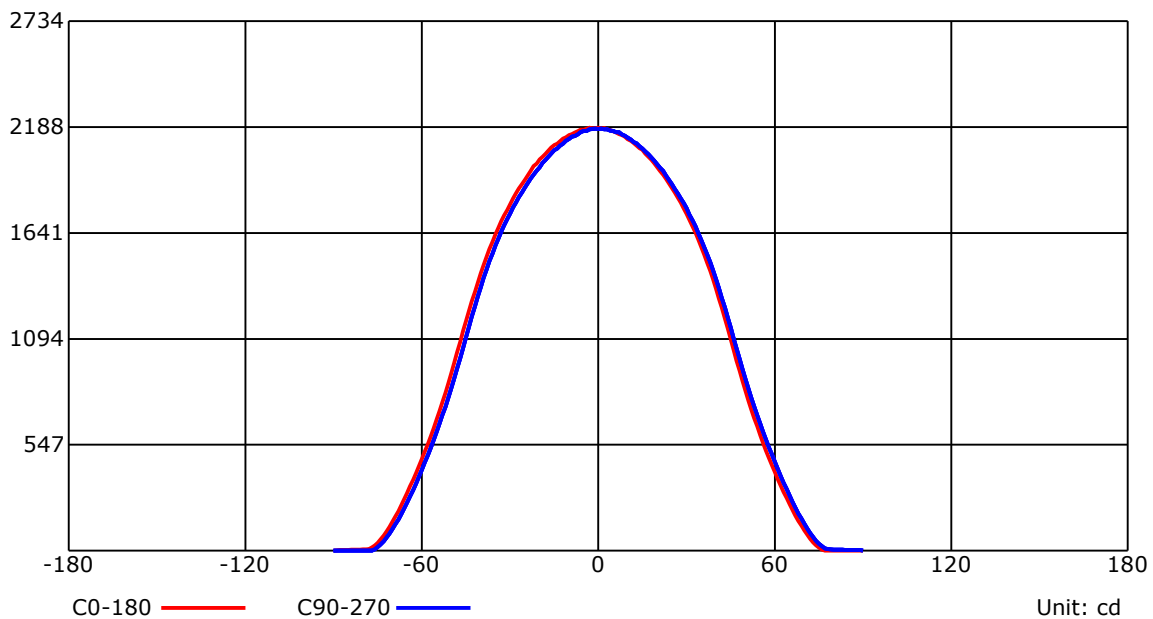
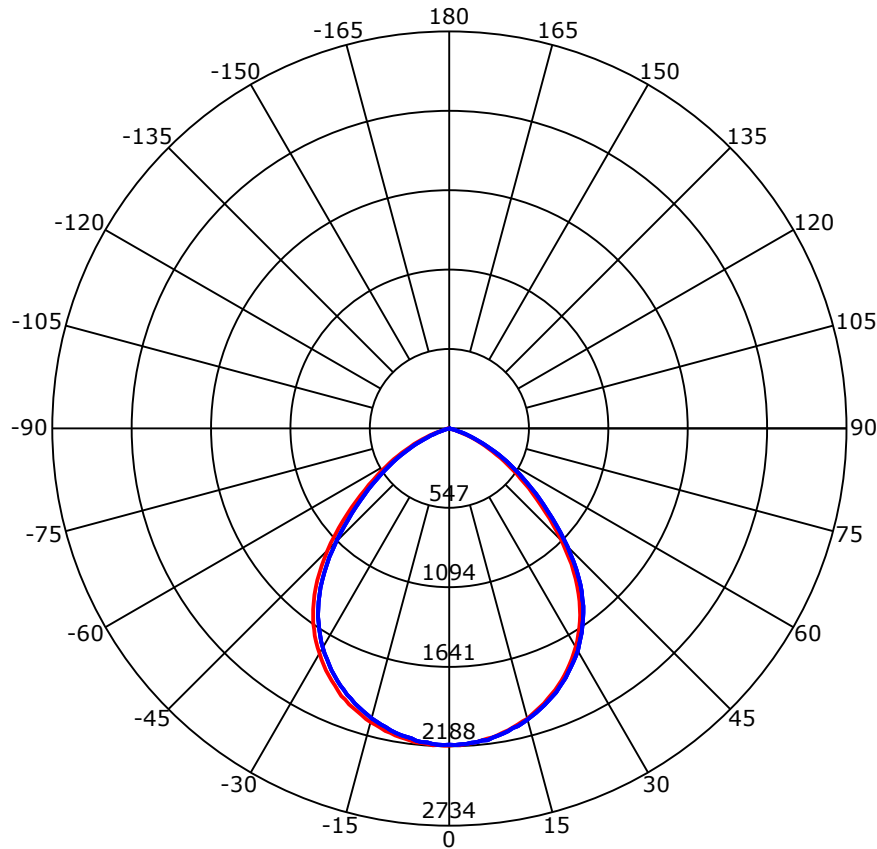
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/6 15:45:55

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



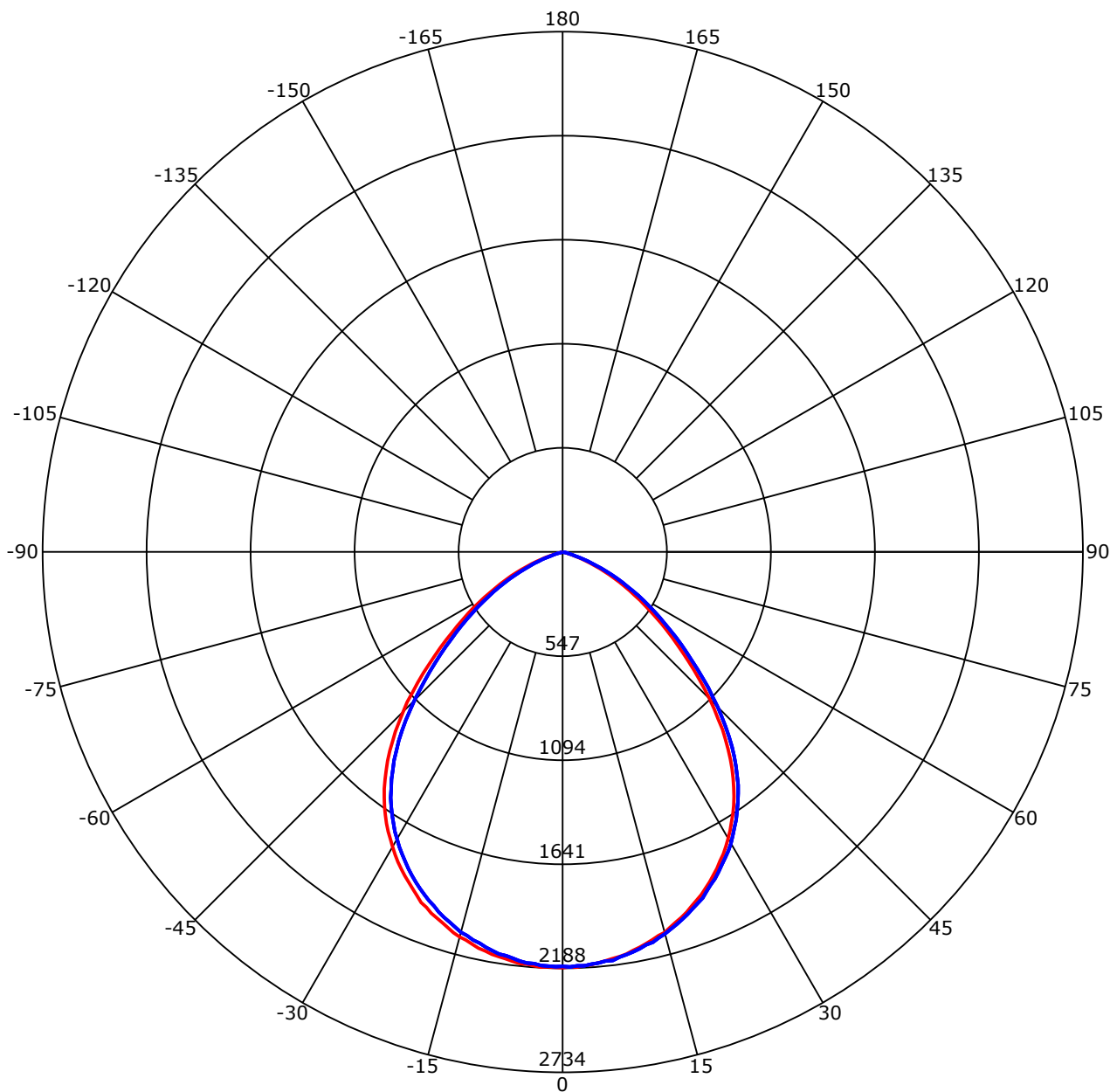
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

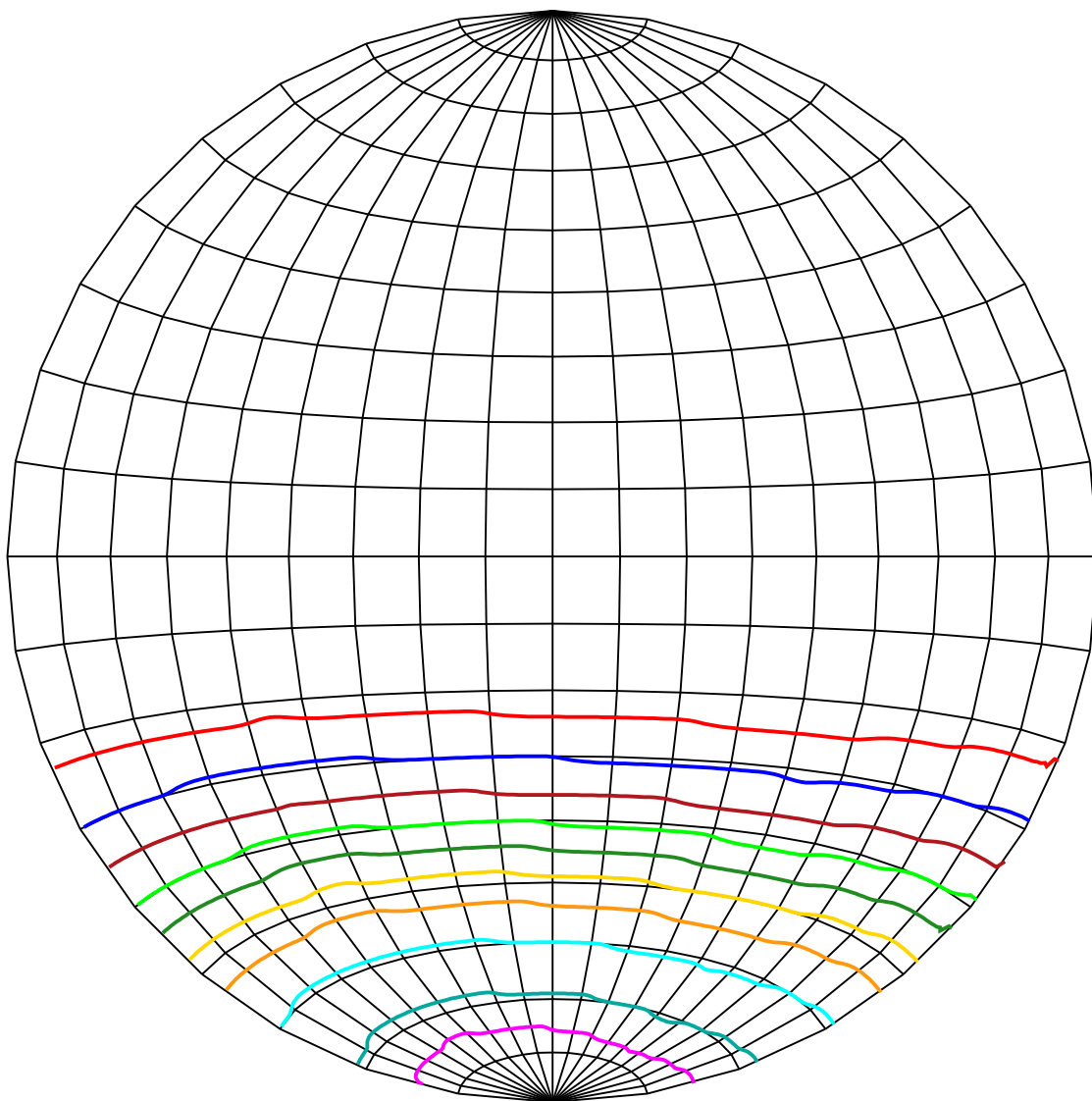
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2187.586 cd

2078.207(95%Imax)	1093.793(50%Imax)
1968.827(90%Imax)	875.034(40%Imax)
1750.069(80%Imax)	656.276(30%Imax)
1531.31(70%Imax)	437.517(20%Imax)
1312.552(60%Imax)	218.759(10%Imax)

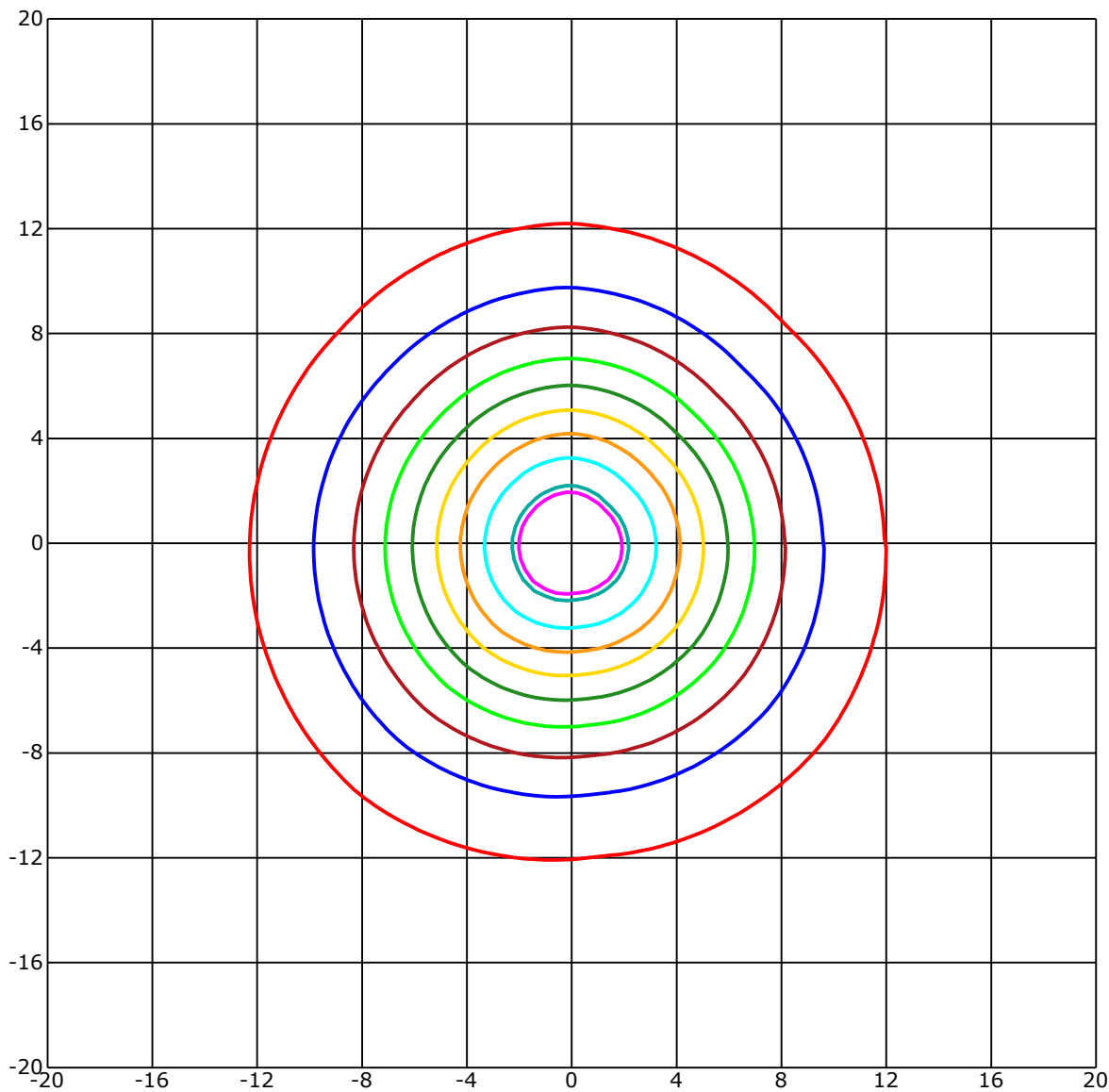
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ISOLX DIAGRAM



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

- | | |
|-----------------|-----------------|
| 20.117(92%Emax) | 10.933(50%Emax) |
| 19.679(90%Emax) | 8.746(40%Emax) |
| 17.493(80%Emax) | 6.56(30%Emax) |
| 15.306(70%Emax) | 4.373(20%Emax) |
| 13.12(60%Emax) | 2.187(10%Emax) |

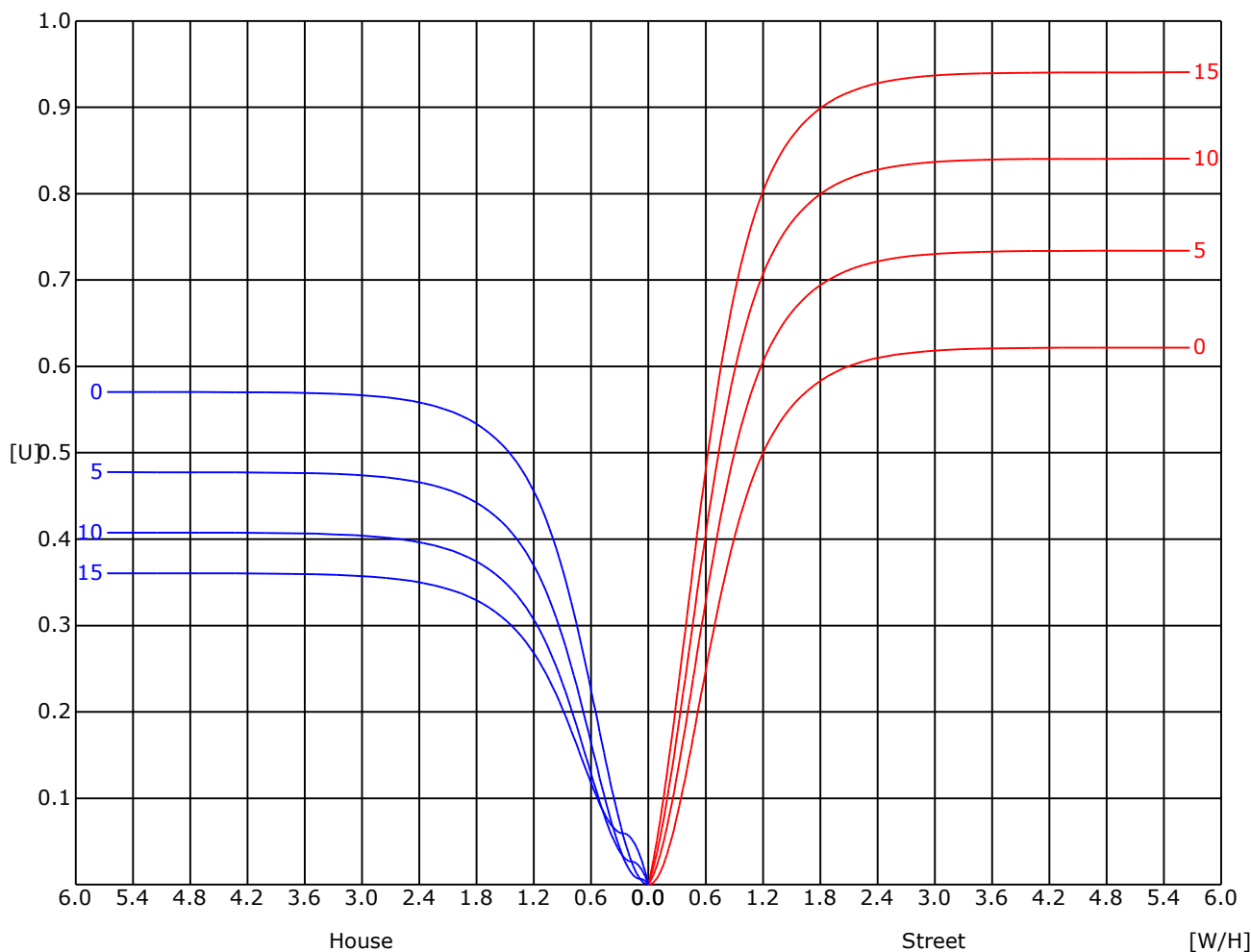
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UTILIZATION FACTOR DIAGRAM (ROAD)



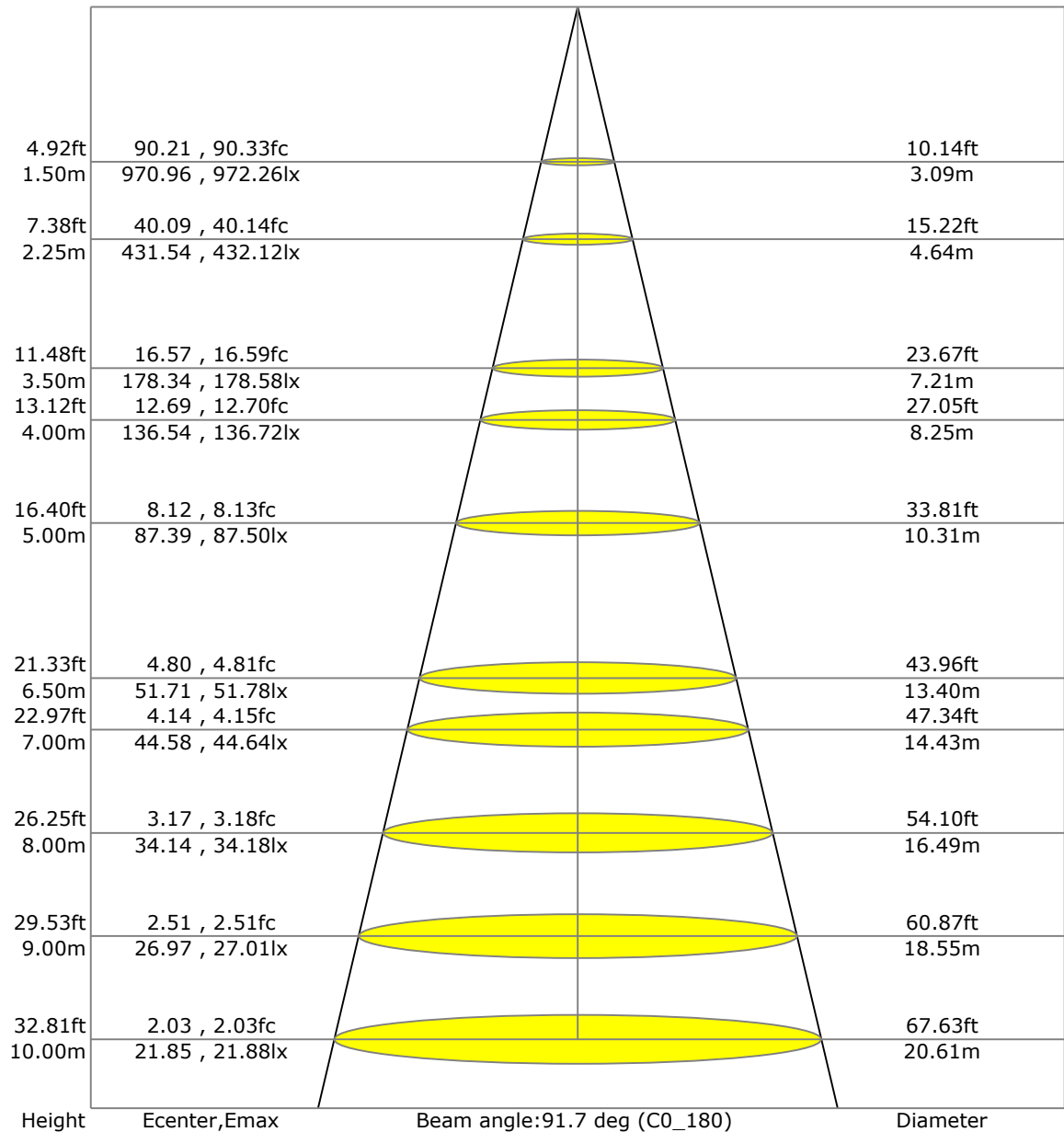
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LX-DISTANCE DIAGRAM



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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	15.19	15.26	15.39	15.45	15.69	15.35	15.41	15.55	15.60	15.84
3H	15.19	15.25	15.39	15.44	15.69	15.33	15.40	15.54	15.59	15.84
4H	15.16	15.23	15.38	15.42	15.67	15.31	15.37	15.52	15.57	15.82
6H	15.14	15.20	15.35	15.40	15.65	15.28	15.34	15.50	15.55	15.80
8H	15.12	15.18	15.34	15.39	15.64	15.27	15.33	15.49	15.53	15.79
12H	15.11	15.17	15.33	15.38	15.63	15.26	15.32	15.48	15.52	15.78
4H 2H	15.58	15.64	15.79	15.84	16.09	15.83	15.89	16.04	16.09	16.34
3H	15.56	15.62	15.79	15.83	16.08	15.81	15.87	16.03	16.08	16.33
4H	15.54	15.59	15.76	15.80	16.06	15.78	15.84	16.01	16.05	16.31
6H	15.50	15.56	15.74	15.78	16.04	15.75	15.80	15.99	16.02	16.29
8H	15.49	15.54	15.73	15.76	16.03	15.73	15.78	15.98	16.01	16.28
12H	15.47	15.52	15.72	15.75	16.02	15.71	15.76	15.96	15.99	16.26
8H 4H	15.54	15.60	15.76	15.80	16.05	15.80	15.85	16.01	16.06	16.31
6H	15.45	15.49	15.70	15.73	16.01	15.70	15.74	15.95	15.98	16.25
8H	15.43	15.47	15.69	15.72	15.99	15.68	15.72	15.94	15.97	16.24
12H	15.41	15.45	15.68	15.70	15.98	15.66	15.70	15.93	15.95	16.23
12H 4H	15.47	15.52	15.72	15.75	16.02	15.72	15.77	15.97	16.00	16.27
6H	15.43	15.47	15.69	15.72	15.99	15.68	15.72	15.94	15.97	16.24

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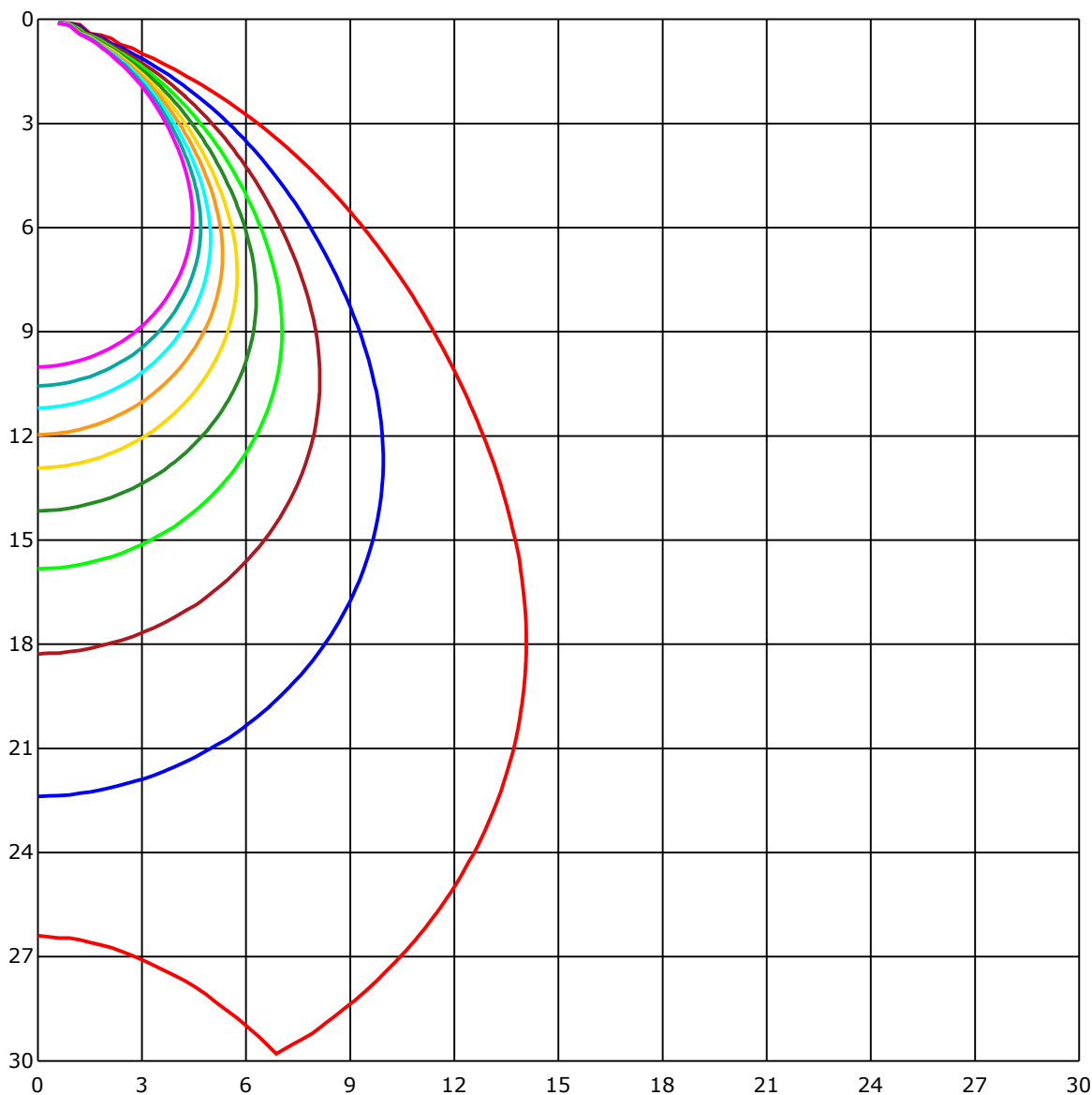
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

21.797

19.617

17.438

15.258

13.078

10.898

8.719

6.539

4.359

2.18

C Range: 0 - 360 Deg

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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2184.66	2173.85	2177.05	2181.55	2184.66	2173.85	2177.05	2181.55	2184.66	
G1	2180.43	2171.11	2179.93	2182.09	2183.44	2175.75	2179.35	2187.59	2180.43	
G2	2182.72	2165.7	2175.48	2181.87	2181.46	2177.95	2177.64	2180.38	2182.72	
G3	2176.24	2162.46	2176.56	2174.26	2184.43	2176.29	2176.24	2178.22	2176.24	
G4	2173.63	2155.12	2170.21	2171.92	2178.94	2175.25	2167.91	2173.63	2173.63	
G5	2167.01	2150.04	2167.55	2169.94	2173.94	2171.51	2167.64	2171.15	2167.01	
G6	2159.22	2142.38	2160.66	2161.2	2173.94	2168.32	2161.83	2165.97	2159.22	
G7	2151.84	2132.25	2162.01	2154.45	2166.92	2167.28	2150.22	2161.34	2151.84	
G8	2146.75	2124.42	2148.96	2149.77	2159.22	2159.09	2142.16	2154.49	2146.75	
G9	2138.15	2115.64	2142.29	2139.5	2152.02	2154.54	2138.15	2143.51	2138.15	
G10	2125.45	2105.91	2133.42	2130.0	2147.02	2147.7	2127.07	2137.79	2125.45	
G11	2116.36	2089.61	2123.38	2119.78	2135.31	2142.92	2116.31	2126.71	2116.36	
G12	2104.88	2078.09	2109.78	2109.83	2128.47	2129.51	2101.82	2114.2	2104.88	
G13	2091.19	2064.22	2104.16	2097.67	2114.96	2124.55	2092.5	2102.9	2091.19	
G14	2077.91	2052.47	2088.67	2081.78	2102.13	2111.05	2077.55	2092.23	2077.91	
G15	2070.25	2032.88	2077.01	2068.14	2094.61	2099.83	2068.0	2080.47	2070.25	
G16	2051.16	2016.63	2061.79	2056.21	2081.78	2086.6	2050.17	2065.08	2051.16	
G17	2033.96	2000.87	2046.84	2037.7	2065.26	2073.68	2034.37	2052.06	2033.96	
G18	2018.93	1982.68	2030.63	2021.18	2048.55	2064.13	2018.16	2037.84	2018.93	
G19	2000.92	1963.86	2013.84	2006.68	2034.1	2045.22	2001.86	2018.39	2000.92	
G20	1980.25	1947.2	1995.15	1987.36	2020.46	2029.51	1978.94	1999.52	1980.25	
G21	1961.12	1926.0	1978.36	1966.74	2000.02	2013.12	1962.92	1981.29	1961.12	
G22	1942.07	1904.02	1961.66	1947.83	1986.42	1998.62	1941.66	1963.68	1942.07	
G23	1920.19	1878.27	1936.89	1926.49	1961.97	1977.14	1921.72	1944.73	1920.19	
G24	1897.41	1852.74	1914.16	1902.63	1938.02	1958.77	1898.4	1921.81	1897.41	
G25	1873.81	1830.05	1894.21	1880.43	1915.64	1938.06	1875.3	1898.44	1873.81	
G26	1849.82	1803.62	1869.4	1855.49	1893.53	1916.45	1850.63	1878.05	1849.82	
G27	1821.72	1774.94	1843.96	1832.26	1869.76	1892.41	1825.5	1852.61	1821.72	
G28	1797.45	1748.83	1819.06	1802.86	1845.09	1868.91	1797.9	1827.8	1797.45	
G29	1767.96	1718.62	1795.88	1773.23	1818.34	1846.71	1772.64	1803.04	1767.96	
G30	1739.06	1684.62	1769.31	1743.65	1788.63	1821.81	1741.44	1777.06	1739.06	
G31	1707.85	1651.98	1735.27	1714.79	1760.13	1790.52	1712.9	1747.03	1707.85	
G32	1673.95	1616.64	1705.2	1684.58	1731.58	1761.75	1680.25	1717.17	1673.95	
G33	1642.21	1581.61	1675.57	1647.61	1701.19	1731.67	1646.53	1684.49	1642.21	
G34	1606.28	1544.96	1639.19	1616.82	1666.39	1702.95	1611.46	1654.32	1606.28	
G35	1568.37	1506.28	1604.12	1578.68	1633.83	1670.26	1576.16	1617.72	1568.37	
G36	1528.93	1463.87	1568.42	1539.1	1595.47	1634.6	1534.96	1580.53	1528.93	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1489.08	1417.31	1531.23	1498.72	1558.1	1599.26	1495.61	1542.89	1489.08	
G38	1445.05	1372.25	1489.31	1457.66	1515.92	1558.33	1450.09	1502.27	1445.05	
G39	1400.02	1324.16	1447.03	1414.07	1475.58	1519.38	1409.66	1459.05	1400.02	
G40	1352.52	1272.52	1402.82	1366.12	1432.35	1475.62	1358.6	1413.89	1352.52	
G41	1302.37	1223.17	1356.71	1317.45	1384.4	1433.07	1312.77	1368.33	1302.37	
G42	1255.5	1169.86	1305.11	1267.34	1336.95	1387.15	1261.08	1319.84	1255.5	
G43	1198.0	1117.32	1255.32	1216.01	1289.09	1341.49	1208.99	1269.14	1198.0	
G44	1145.46	1062.43	1202.41	1163.96	1236.45	1290.08	1154.15	1216.82	1145.46	
G45	1091.38	1010.48	1153.43	1109.89	1186.21	1239.6	1102.24	1164.5	1091.38	
G46	1037.09	956.67	1097.1	1057.89	1136.09	1188.14	1047.76	1110.07	1037.09	
G47	981.35	907.24	1045.05	1002.64	1078.06	1134.74	993.91	1055.77	981.35	
G48	928.71	855.23	989.67	947.98	1024.39	1082.7	939.65	1000.03	928.71	
G49	875.76	806.7	936.68	893.95	969.82	1026.51	888.55	944.79	875.76	
G50	825.92	759.56	886.3	843.98	915.75	972.61	838.3	893.64	825.92	
G51	776.26	713.81	839.38	794.63	865.45	922.99	790.76	842.85	776.26	
G52	729.3	670.32	790.98	746.32	815.52	871.35	743.08	792.78	729.3	
G53	685.22	628.72	745.6	700.48	765.63	821.69	700.17	746.23	685.22	
G54	642.31	585.85	698.82	656.41	718.99	775.41	655.73	700.26	642.31	
G55	596.66	546.23	656.36	614.08	676.58	729.62	612.19	657.31	596.66	
G56	556.09	506.93	614.17	573.38	632.14	684.64	570.23	614.89	556.09	
G57	516.2	470.01	574.73	533.45	590.49	641.64	531.46	572.75	516.2	
G58	479.46	433.54	534.75	495.72	551.1	600.8	492.61	533.18	479.46	
G59	440.43	397.92	495.72	457.44	510.71	559.92	454.38	493.73	440.43	
G60	404.9	361.99	458.48	421.02	473.7	519.53	417.42	456.18	404.9	
G61	369.51	327.64	422.69	385.14	436.64	481.71	381.76	419.26	369.51	
G62	336.33	294.73	385.95	350.56	401.03	444.88	346.46	383.92	336.33	
G63	303.01	263.03	351.73	316.25	366.14	408.14	313.37	348.98	303.01	
G64	271.05	232.14	318.19	282.98	333.36	373.7	279.55	315.39	271.05	
G65	240.25	202.88	284.33	251.05	298.83	339.44	248.49	282.84	240.25	
G66	210.98	174.78	251.59	220.75	265.96	305.26	218.19	252.0	210.98	
G67	181.36	147.99	221.79	191.04	235.25	272.85	188.88	221.47	181.36	
G68	153.89	123.37	192.39	164.11	204.5	241.06	160.78	191.67	153.89	
G69	129.04	100.31	165.19	137.82	175.5	210.4	135.52	164.11	129.04	
G70	105.09	78.48	139.44	113.51	149.07	181.4	111.43	138.72	105.09	
G71	82.84	58.4	115.04	90.54	123.37	154.3	88.43	114.5	82.84	
G72	62.27	40.03	91.8	69.16	99.68	128.23	67.4	90.81	62.27	
G73	43.54	24.99	70.73	49.62	77.62	104.41	48.36	69.83	43.54	

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