

inches



1	2	3	4	5	6	7	8	9	10	11	12
38.1	50.8	63.5	76.2	88.9	101.6	114.3	127.0	139.7	152.4	165.1	177.8
1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0

1	2	3	4	5	6	7	8	9	10	11	12
38.1	50.8	63.5	76.2	88.9	101.6	114.3	127.0	139.7	152.4	165.1	177.8
0.0406	0.0456	0.0506	0.0556	0.0606	0.0656	0.0706	0.0756	0.0806	0.0856	0.0906	0.0956

D50 Illuminant, 2 degree observer

Density



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
38.1	50.8	63.5	76.2	88.9	101.6	114.3	127.0	139.7	152.4	165.1	177.8	190.5	203.2	215.9	228.6	241.3	254.0	266.7	279.4	292.1	304.8	317.5	330.2	342.9	355.6	368.3	381.0	393.7	406.4	419.1	431.8	444.5	457.2	469.9	482.6	495.3	508.0	520.7	533.4	546.1	558.8	571.5	584.2	596.9	609.6	622.3	635.0	647.7	660.4	673.1	685.8	698.5	711.2	723.9	736.6	749.3	762.0	774.7	787.4	800.1	812.8	825.5	838.2	850.9	863.6	876.3	889.0	901.7	914.4	927.1	939.8	952.5	965.2	977.9	990.6	1003.3	1016.0	1028.7	1041.4	1054.1	1066.8	1079.5	1092.2	1104.9	1117.6	1130.3	1143.0	1155.7	1168.4	1181.1	1193.8	1206.5	1219.2	1231.9	1244.6	1257.3	1270.0	1282.7	1295.4	1308.1	1320.8	1333.5	1346.2	1358.9	1371.6	1384.3	1397.0	1409.7	1422.4	1435.1	1447.8	1460.5	1473.2	1485.9	1498.6	1511.3	1524.0	1536.7	1549.4	1562.1	1574.8	1587.5	1600.2	1612.9	1625.6	1638.3	1651.0	1663.7	1676.4	1689.1	1701.8	1714.5	1727.2	1739.9	1752.6	1765.3	1778.0	1790.7	1803.4	1816.1	1828.8	1841.5	1854.2	1866.9	1879.6	1892.3	1905.0	1917.7	1930.4	1943.1	1955.8	1968.5	1981.2	1993.9	2006.6	2019.3	2032.0	2044.7	2057.4	2070.1	2082.8	2095.5	2108.2	2120.9	2133.6	2146.3	2159.0	2171.7	2184.4	2197.1	2209.8	2222.5	2235.2	2247.9	2260.6	2273.3	2286.0	2298.7	2311.4	2324.1	2336.8	2349.5	2362.2	2374.9	2387.6	2400.3	2413.0	2425.7	2438.4	2451.1	2463.8	2476.5	2489.2	2501.9	2514.6	2527.3	2540.0	2552.7	2565.4	2578.1	2590.8	2603.5	2616.2	2628.9	2641.6	2654.3	2667.0	2679.7	2692.4	2705.1	2717.8	2730.5	2743.2	2755.9	2768.6	2781.3	2794.0	2806.7	2819.4	2832.1	2844.8	2857.5	2870.2	2882.9	2895.6	2908.3	2921.0	2933.7	2946.4	2959.1	2971.8	2984.5	2997.2	3009.9	3022.6	3035.3	3048.0	3060.7	3073.4	3086.1	3098.8	3111.5	3124.2	3136.9	3149.6	3162.3	3175.0	3187.7	3200.4	3213.1	3225.8	3238.5	3251.2	3263.9	3276.6	3289.3	3302.0	3314.7	3327.4	3340.1	3352.8	3365.5	3378.2	3390.9	3403.6	3416.3	3429.0	3441.7	3454.4	3467.1	3479.8	3492.5	3505.2	3517.9	3530.6	3543.3	3556.0	3568.7	3581.4	3594.1	3606.8	3619.5	3632.2	3644.9	3657.6	3670.3	3683.0	3695.7	3708.4	3721.1	3733.8	3746.5	3759.2	3771.9	3784.6	3797.3	3810.0	3822.7	3835.4	3848.1	3860.8	3873.5	3886.2	3898.9	3911.6	3924.3	3937.0	3949.7	3962.4	3975.1	3987.8	4000.5	4013.2	4025.9	4038.6	4051.3	4064.0	4076.7	4089.4	4102.1	4114.8	4127.5	4140.2	4152.9	4165.6	4178.3	4191.0	4203.7	4216.4	4229.1	4241.8	4254.5	4267.2	4279.9	4292.6	4305.3	4318.0	4330.7	4343.4	4356.1	4368.8	4381.5	4394.2	4406.9	4419.6	4432.3	4445.0	4457.7	4470.4	4483.1	4495.8	4508.5	4521.2	4533.9	4546.6	4559.3	4572.0	4584.7	4597.4	4610.1	4622.8	4635.5	4648.2	4660.9	4673.6	4686.3	4699.0	4711.7	4724.4	4737.1	4749.8	4762.5	4775.2	4787.9	4800.6	4813.3	4826.0	4838.7	4851.4	4864.1	4876.8	4889.5	4902.2	4914.9	4927.6	4940.3	4953.0	4965.7	4978.4	4991.1	5003.8	5016.5	5029.2	5041.9	5054.6	5067.3	5080.0	5092.7	5105.4	5118.1	5130.8	5143.5	5156.2	5168.9	5181.6	5194.3	5207.0	5219.7	5232.4	5245.1	5257.8	5270.5	5283.2	5295.9	5308.6	5321.3	5334.0	5346.7	5359.4	5372.1	5384.8	5397.5	5410.2	5422.9	5435.6	5448.3	5461.0	5473.7	5486.4	5499.1	5511.8	5524.5	5537.2	5549.9	5562.6	5575.3	5588.0	5600.7	5613.4	5626.1	5638.8	5651.5	5664.2	5676.9	5689.6	5702.3	5715.0	5727.7	5740.4	5753.1	5765.8	5778.5	5791.2	5803.9	5816.6	5829.3	5842.0	5854.7	5867.4	5880.1	5892.8	5905.5	5918.2	5930.9	5943.6	5956.3	5969.0	5981.7	5994.4	6007.1	6019.8	6032.5	6045.2	6057.9	6070.6	6083.3	6096.0	6108.7	6121.4	6134.1	6146.8	6159.5	6172.2	6184.9	6197.6	6210.3	6223.0	6235.7	6248.4	6261.1	6273.8	6286.5	6299.2	6311.9	6324.6	6337.3	6350.0	6362.7	6375.4	6388.1	6400.8	6413.5	6426.2	6438.9	6451.6	6464.3	6477.0	6489.7	6502.4	6515.1	6527.8	6540.5	6553.2	6565.9	6578.6	6591.3	6604.0	6616.7	6629.4	6642.1	6654.8	6667.5	6680.2	6692.9	6705.6	6718.3	6731.0	6743.7	6756.4	6769.1	6781.8	6794.5	6807.2	6819.9	6832.6	6845.3	6858.0	6870.7	6883.4	6896.1	6908.8	6921.5	6934.2	6946.9	6959.6	6972.3	6985.0	6997.7	7010.4	7023.1	7035.8	7048.5	7061.2	7073.9	7086.6	7099.3	7112.0	7124.7	7137.4	7150.1	7162.8	7175.5	7188.2	7200.9	7213.6	7226.3	7239.0	7251.7	7264.4	7277.1	7289.8	7302.5	7315.2	7327.9	7340.6	7353.3	7366.0	7378.7	7391.4	7404.1	7416.8	7429.5	7442.2	7454.9	7467.6	7480.3	7493.0	7505.7	7518.4	7531.1	7543.8	7556.5	7569.2	7581.9	7594.6	7607.3	7620.0	7632.7	7645.4	7658.1	7670.8	7683.5	7696.2	7708.9	7721.6	7734.3	7747.0	7759.7	7772.4	7785.1	7797.8	7810.5	7823.2	7835.9	7848.6	7861.3	7874.0	7886.7	7899.4	7912.1	7924.8	7937.5	7950.2	7962.9	7975.6	7988.3	8001.0	8013.7	8026.4	8039.1	8051.8	8064.5	8077.2	8089.9	8102.6	8115.3	8128.0	8140.7	8153.4	8166.1	8178.8	8191.5	8204.2	8216.9	8229.6	8242.3	8255.0	8267.7	8280.4	8293.1	8305.8	8318.5	8331.2	8343.9	8356.6	8369.3	8382.0	8394.7	8407.4	8420.1	8432.8	8445.5	8458.2	8470.9	8483.6	8496.3	8509.0	8521.7	8534.4	8547.1	8559.8	8572.5	8585.2	8597.9	8610.6	8623.3	8636.0	8648.7	8661.4	8674.1	8686.8	8699.5	8712.2	8724.9	8737.6	8750.3	8763.0	8775.7	8788.4	8801.1	8813.8	8826.5	8839.2	8851.9	8864.6	8877.3	8890.0	8902.7	8915.4	8928.1	8940.8	8953.5	8966.2	8978.9	8991.6	9004.3	9017.0	9029.7	9042.4	9055.1	9067.8	9080.5	9093.2	9105.9	9118.6	9131.3	9144.0	9156.7	9169.4	9182.1	9194.8	9207.5	9220.2	9232.9	9245.6	9258.3	9271.0	9283.7	9296.4	9309.1	9321.8	9334.5	9347.2	9359.9	9372.6	9385.3	9398.0	9410.7	9423.4	9436.1	9448.8	9461.5	9474.2	9486.9	9499.6	9512.3	9525.0	9537.7	9550.4	9563.1	9575.8	9588.5	9601.2	9613.9	9626.6	9639.3	9652.0	9664.7	9677.4	9690.1	9702.8	9715.5	9728.2	9740.9	9753.6	9766.3	9779.0	9791.7	9804.4	9817.1	9829.8	9842.5	9855.2	9867.9	9880.6	9893.3	9906.0	9918.7	9931.4	9944.1	9956.8	9969.5	9982.2	9994.9	10007.6	10020.3	10033.0	10045.7	10058.4	10071.1	10083.8	10096.5	10109.2	10121.9	10134.6	10147.3	10160.0	10172.7	10185.4	10198.1	10210.8	10223.5	10236.2	10248.9	10261.6	10274.3	10287.0	10300.7	10313.4	10326.1	10338.8	10351.5	10364.2	10376.9	10389.6	10402.3	10415.0	10427.7	10440.4	10453.1	10465.8	10478.5	10491.2	10503.9	10516.6	10529.3	10542.0	10554.7	10567.4	10580.1	10592.8	10605.5	10618.2	10630.9	10643.6	10656.3	10669.0	10681.7	10694.4	10707.1	10719.8	10732.5	10745.2	10757.9	10770.6	10783.3	10796.0	10808.7	10821.4	10834.1	10846.8	10859.5	10872.2	10884.9	10897.6	10910.3	10923.0	10935.7	10948.4	10961.1	10973.8	10986.5	10999.2	11011.9	11024.6	11037.3	11050.0	11062.7	11075.4	11088.1	11100.8	11113.5	11126.2	11138.9	11151.6	11164.3	11177.0	11189.7	11202.4	11215.1	11227.8	11240.5	11253.2	11265.9	11278.6	11291.3	11304.0	11316.7	11329.4	11342.1	11354.8	11367.5	11380.2	11392.9	11405.6	11418.3	11431.0	11443.7	11456.4	11469.1	11481.8	11494.5	11507.2	11519.9	11532.6	11545.3	11558.0	11570.7	11583.4	11596.1	11608.8	11621.5	11634.2	11646.9	11659.6	11672.3	11685.0	11697.7	11710.4	11723.1	11735.8	11748.5	11761.2	11773.9	11786.6	11799.3	11812.0	11824.7	11837.4	11850.1	11862.8	11875.5	11888.2	11900.9	11913.6	11926.3	11939.0	11951.7	11964.4	11977.1	11989.8	12002.5	12015.2	12027.9	12040.6	12053.3	12066.0	12078.7	12091.4	12104.1	12116.8	12129.5	12142.2	12154.9	12167.6	12180.3	12193.0	12205.7	12218.4	12231.1	12243.8	12256.5	12269.2	12281.9	12294.6	12307.3	12320.0	12332.7	12345.4	12358.1	12370.8	12383.5	12396.2	12408.9	12421.6	12434.3	12447.0	12459.7	12472.4	12485.1	12497.8	12510.5	12523.2	12535.9	12548.6	12561.3	12574.0	12586.7	12599.4	12612.1	12624.8	12637.5	12650.2	12662.9	12675.6	12688.3	12701.0	12713.7	12726.4	12739.1	12751.8	12764.5	12777.2	12789.9	12802.6	12815.3	12828.0</