

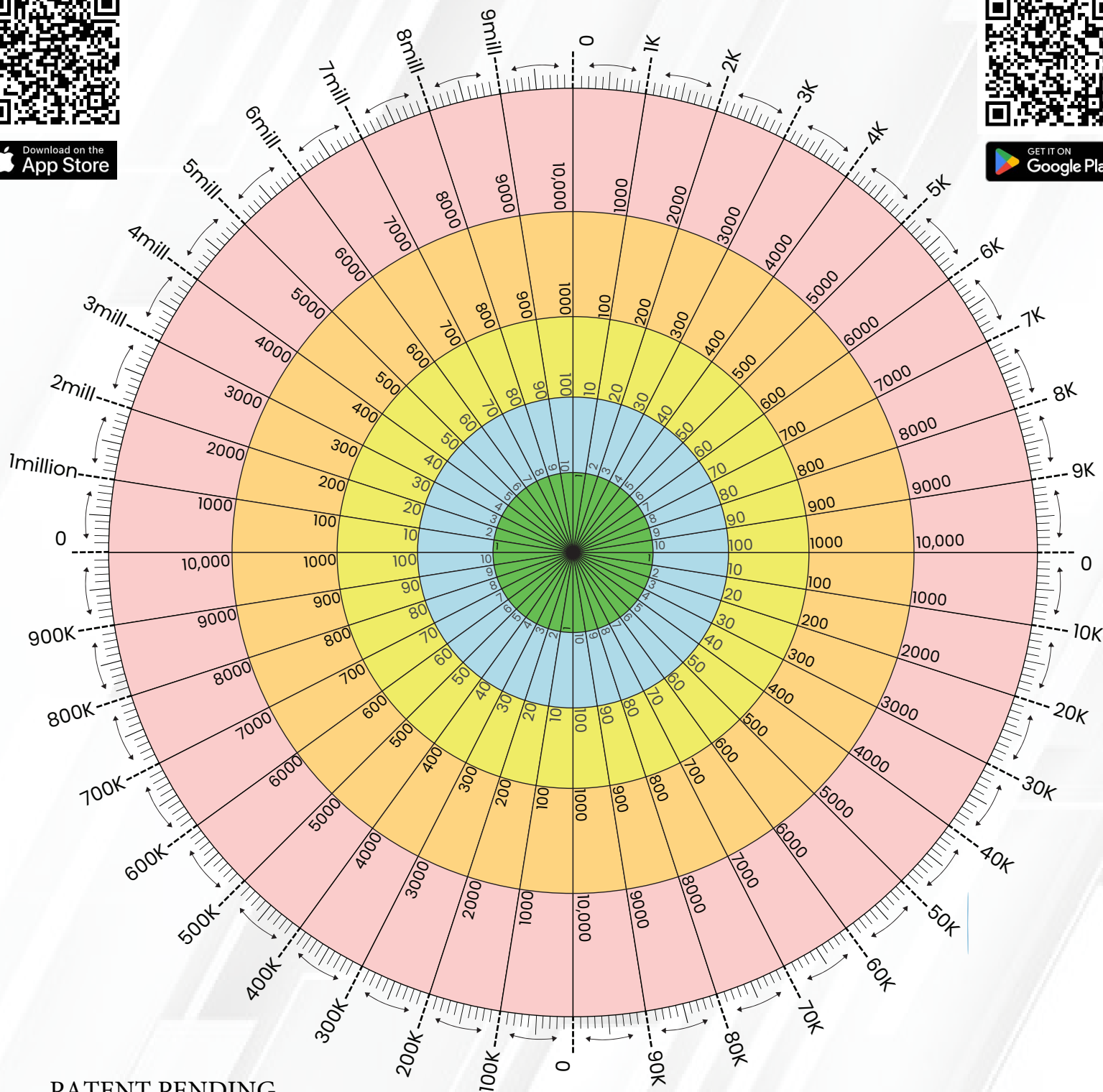
# QQ CHART



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## 5 PROBABILITY REGIONS

P5

Red

P4

Orange

P3

Yellow

P2

Blue

P1

Green

<b>High Risk, High Complexity</b> <b>Probability / Likelihood of Occurrence of Failure</b> <b>Thousands of units per year (1000 to 9,999)</b>					
Score	Term	Description	Probability (Scientific Notation)	Probability (Decimal)	Probability (Percent)
5	Frequent	Likely to occur frequently	$P \geq 10^0$	$P \geq 1$	$P \geq 100\%$
4	Probable	Likely to occur several times	$10^0 > P \geq 10^{-1}$	$1 > P \geq 0.1$	$100\% > P \geq 10\%$
3	Occasional	Likely to occur sometimes	$10^{-1} > P \geq 10^{-2}$	$0.1 > P \geq 0.01$	$10\% > P \geq 1\%$
2	Remote	Unlikely but possible to occur	$10^{-2} > P \geq 10^{-3}$	$0.01 > P \geq 0.001$	$1\% > P \geq 0.1\%$
1	Improbable	Very unlikely to occur	$10^{-3} > P$	$0.001 > P$	$0.1\% > P$
<b>Medium Risk , Medium Complexity</b> <b>Probability / Likelihood of Occurrence of Failure</b> <b>Tens of thousands of units per year (10,000 to 99,999)</b>					
Score	Term	Description	Probability (Scientific Notation)	Probability (Decimal)	Probability (Percent)
5	Frequent	Likely to occur frequently	$P \geq 10^{-1}$	$P \geq 0.1$	$P \geq 10\%$
4	Probable	Likely to occur several times	$10^{-1} > P \geq 10^{-2}$	$0.1 > P \geq 0.01$	$10\% > P \geq 1\%$
3	Occasional	Likely to occur sometimes	$10^{-2} > P \geq 10^{-3}$	$0.01 > P \geq 0.001$	$1\% > P \geq 0.1\%$
2	Remote	Unlikely but possible to occur	$10^{-3} > P \geq 10^{-4}$	$0.001 > P \geq 0.0001$	$0.1\% > P \geq 0.01\%$
1	Improbable	Very unlikely to occur	$10^{-4} > P$	$0.0001 > P$	$0.01\% > P$
<b>Moderate Risk, Moderate Complexity</b> <b>Probability / Likelihood of Occurrence of Failure</b> <b>Hundreds of thousands of units /year (100,000 to 999,999)</b>					
Score	Term	Description	Probability (Scientific Notation)	Probability (Decimal)	Probability (Percent)
5	Frequent	Likely to occur frequently	$P \geq 10^{-2}$	$P \geq 0.01$	$P \geq 1\%$
4	Probable	Likely to occur several times	$10^{-2} > P \geq 10^{-3}$	$0.01 > P \geq 0.001$	$1\% > P \geq 0.1\%$
3	Occasional	Likely to occur sometimes	$10^{-3} > P \geq 10^{-4}$	$0.001 > P \geq 0.0001$	$0.1\% > P \geq 0.01\%$
2	Remote	Unlikely but possible to occur	$10^{-4} > P \geq 10^{-5}$	$0.0001 > P \geq 0.00001$	$0.01\% > P \geq 0.001\%$
1	Improbable	Very unlikely to occur	$10^{-5} > P$	$0.00001 > P$	$0.001\% > P$
<b>Low Risk, Low Complexity</b> <b>Probability / Likelihood of Occurrence of Failure</b> <b>Millions of units per year (1,000,000 to 9,999,999)</b>					
Score	Term	Description	Probability (Scientific Notation)	Probability (Decimal)	Probability (Percent)
5	Frequent	Likely to occur frequently	$P \geq 10^{-3}$	$P \geq 0.001$	$P \geq 0.1\%$
4	Probable	Likely to occur several times	$10^{-3} > P \geq 10^{-4}$	$0.001 > P \geq 0.0001$	$0.1\% > P \geq 0.01\%$
3	Occasional	Likely to occur sometimes	$10^{-4} > P \geq 10^{-5}$	$0.0001 > P \geq 0.00001$	$0.01\% > P \geq 0.001\%$
2	Remote	Unlikely but possible to occur	$10^{-5} > P \geq 10^{-6}$	$0.00001 > P \geq 0.000001$	$0.001\% > P \geq 0.0001\%$
1	Improbable	Very unlikely to occur	$10^{-6} > P$	$0.000001 > P$	$0.0001\% > P$