

4-57)

$M=5 \rightarrow 4, 3, 2, 1$

$4 \rightarrow 3, 2, 1$

$3 \rightarrow 2, 1$

$2 \rightarrow 1$

4  
3  
2  
1  

---

10 TOTAL

NUMBER OF PHOTONS

$M_i$	$n_i$	LIKELIHOOD	# PHOTONS
5	4	25%	125
5	3	25%	125
5	2	25%	125
5	1	25%	125
4	3	25% x 33%	42
4	2	—  —	42
4	1	—  —	42
3	2	25% x 50% + 25% x 33% x 50%	83
3	1	—  —	—  —
2	1	25% + 25% x 50% + 25% x 33% + 25% x 33% x 50%	250
			<hr/> <u>1,042</u>