Optical Reach = 200   **Regenerators: 8, 6, 15, 16**

Request Size	Heuristic - RNRR			ILP		
	Total count	Max count	Time	Total Count	Max count	Time
20	23	7	0.004			
40	51	14	0.01			
60	79	22	0.02			
80	107	27	0.02			

In the above and below comparison enough wavelengths are taken so that no request gets blocked due to non-availability of wavelength. **MAX Segment allowed = 5 (non-blocking)**

Request Size	Heuristic - FSR				Heuristic - RNRR				Heuristic - FSR-RNRR			
	Total count	Maximum count	Median	S.D.	Total count	Max count	Median	S.D	Total count	Max count	Median	S.D
100	115	33	29	3.83	132	33	33	0	115	32	28	1.92
200	218	70	55	11.67	248	63	62.5	1.22	222	57	56.5	2.06
300	316	97	80.5	14	374	95	93.5	1.1	321	83	81.5	3.11
400	417	134	105	21.68	507	129	127	1.92	424	111	109.5	7
500	531	165	133.5	23.56	642	162	161	1.5	538	140	138	7.4

Comparison of call blocking proability with number of wavelengths allowed per link (W)

MAX Segment allowed = 5 (non-blocking)

Call blocking probability comparison due to wavelengths for Req Size = 100

Heuristic	W = 10	W = 15	W = 20	W = 25
FSR	0.52	0.29	0.13	0.07
RNRR	0.53	0.27	0.15	0.08
FSR-RNRR	0.5	0.29	0.13	0.09

MAX Segment allowed = 5 (non-blocking)

Call blocking probability comparison due to wavelengths for Req Size = 200

Heuristic	W = 20	W = 25	W = 30	W = 35	W = 40	W = 45
FSR	0.43	0.35	0.24	0.16	0.13	0.1
RNRR	0.41	0.3	0.19	0.15	0.11	0.065
FSR-RNRR	0.42	0.34	0.23	0.16	0.12	0.08

Comparison of call blocking probability with varying number of allowable segments and maximum number of allowable regenerations per node (RN)

For req size = 500, W = 80, MAX Segment allowed = 4

Heuristic	RN = 50	RN = 75	RN = 100	RN = 125	RN = 150
FSR	0.46	0.4	0.32	0.26	0.21
RNRR	0.47	0.39	0.32	0.26	0.2
FSR-RNRR	0.46	0.38	0.3	0.24	0.18

For req size = 500, W = 150, MAX Segment allowed = 4

Heuristic	RN = 50	RN = 75	RN = 100	RN = 125	RN = 150
FSR	0.44	0.32	0.22	0.155	0.09
RNRR	0.46	0.35	0.26	0.19	0.11
FSR-RNRR	0.43	0.31	0.216	0.15	0.08

For req size = 500, W = 80, MAX Segment allowed = 3

Heuristic	RN = 50	RN = 75	RN = 100	RN = 125	RN = 150
FSR	0.46	0.39	0.31	0.26	0.21
RNRR	0.47	0.385	0.3	0.25	0.2
FSR-RNRR	0.46	0.38	0.3	0.25	0.19

For req size = 500, W = 150, MAX Segment allowed = 3

Heuristic	RN = 50	RN = 75	RN = 100	RN = 125	RN = 150
FSR	0.43	0.32	0.222	0.152	0.094
RNRR	0.46	0.35	0.27	0.19	0.12
FSR-RNRR	0.44	0.315	0.22	0.15	0.08

For req size = 500, W = 80, MAX Segment allowed = 2

Heuristic	RN = 50	RN = 75	RN = 100	RN = 125	RN = 150
FSR	0.46	0.38	0.31	0.26	0.23
RNRR	0.47	0.38	0.305	0.25	0.2
FSR-RNRR	0.46	0.38	0.3	0.25	0.19

For req size = 500, W = 150, MAX Segment allowed = 2

Heuristic	RN = 50	RN = 75	RN = 100	RN = 125	RN = 150
FSR	0.42	0.3	0.21	0.15	0.1
RNRR	0.43	0.31	0.22	0.15	0.15
FSR-RNRR	0.42	0.295	0.206	0.14	0.09