| $p_{\mathrm{T}}$ | 2.0 < y < 2.5                            | 2.5 < y < 3.0                            | 3.0 < y < 3.5                         | 3.5 < y < 4.0                         | 4.0 < y < 4.5                         |
|------------------|--|--|---------------------------------------|---------------------------------------|---------------------------------------|
| ( GeV/c)         |  |  |                                       |                                       |                                       |
| 0-1              | $7.0 \pm 1.5 \pm 0.3 ^{+1.3}_{-2.6}$     | $6.3 \pm 1.0 \pm 0.3 ^{+0.6}_{-1.0}$     | $3.1 \pm 0.6 \pm 0.1 ^{+0.2}_{-0.4}$  | $5.0 \pm 0.9 \pm 0.2 ^{+0.5}_{-0.9}$  | -                                     |
| 1-2              | $14.1 \pm 2.2 \pm 0.7 ^{~+2.6}_{~-5.3}$  | $5.6 \pm 0.9 \pm 0.3  ^{+0.6}_{-1.1}$    | $11.6 \pm 1.2 \pm 0.6 ^{+0.7}_{-1.3}$ | $12.7 \pm 1.4 \pm 0.6 ^{+1.2}_{-2.1}$ | $10.2 \pm 1.9 \pm 0.5 ^{+1.4}_{-2.6}$ |
| 2-3              | $17.6 \pm 2.3 \pm 0.9 ^{ +2.7}_{ -5.3}$  | $22.3 \pm 1.8 \pm 1.1 ^{+2.1}_{-4.1}$    | $15.2 \pm 1.4 \pm 0.7 ^{+0.8}_{-1.6}$ | $6.7 \pm 1.0 \pm 0.3 ^{+0.5}_{-0.9}$  | $9.9 \pm 1.7 \pm 0.5 ^{+1.2}_{-2.1}$  |
| 3-4              | $24.9 \pm 2.7 \pm 1.2  {}^{+4.0}_{-7.7}$ | $17.6 \pm 1.6 \pm 0.8 ^{+1.6}_{-3.1}$    | $13.5 \pm 1.3 \pm 0.6 ^{+0.8}_{-1.6}$ | $6.8 \pm 1.0 \pm 0.3 ^{+0.4}_{-0.8}$  | $7.5 \pm 1.5 \pm 0.4 ^{+0.7}_{-1.3}$  |
| 4-5              | $16.7 \pm 2.2 \pm 0.8  ^{+2.6}_{-5.1}$   | $17.5 \pm 1.6 \pm 0.8  {}^{+1.6}_{-3.0}$ | $6.9 \pm 0.9 \pm 0.3 ^{+0.3}_{-0.6}$  | $6.1 \pm 0.9 \pm 0.3 ^{+0.3}_{-0.5}$  | $7.6 \pm 1.5 \pm 0.4 ^{+0.6}_{-1.2}$  |
| 5-6              | $16.6 \pm 2.1 \pm 0.8  {}^{+2.4}_{-4.6}$ | $21.3 \pm 1.8 \pm 1.0 ^{+1.8}_{-3.5}$    | $12.1 \pm 1.2 \pm 0.6 ^{+0.6}_{-1.1}$ | $7.8 \pm 1.1 \pm 0.4 ^{+0.3}_{-0.5}$  | $7.6 \pm 1.4 \pm 0.4 ^{+0.5}_{-0.9}$  |
| 6-7              | $22.2 \pm 2.5 \pm 1.1  {}^{+3.0}_{-5.6}$ | $19.1 \pm 1.7 \pm 0.9 ^{+1.5}_{-3.0}$    | $8.4 \pm 1.0 \pm 0.4 ^{+0.3}_{-0.6}$  | $7.1 \pm 1.0 \pm 0.3 ^{+0.2}_{-0.3}$  | $3.1 \pm 0.9 \pm 0.2 ^{+0.1}_{-0.3}$  |
| 7-8              | $20.6 \pm 2.4 \pm 1.0 ^{+2.7}_{-5.4}$    | $10.5 \pm 1.2 \pm 0.5 ^{+0.8}_{-1.6}$    | $9.2 \pm 1.1 \pm 0.4 ^{+0.3}_{-0.6}$  | $5.2 \pm 0.9 \pm 0.3 ^{+0.1}_{-0.1}$  | $1.4 \pm 0.6 \pm 0.1 ^{+0.1}_{-0.1}$  |
| 8-9              | $13.7 \pm 1.9 \pm 0.7  {}^{+1.7}_{-3.3}$ | $10.7 \pm 1.2 \pm 0.5 ^{+0.8}_{-1.6}$    | $6.8 \pm 0.9 \pm 0.3 ^{+0.1}_{-0.3}$  | $2.4 \pm 0.6 \pm 0.1 ^{+0.0}_{-0.1}$  | $0.6 \pm 0.4 \pm 0.0 ^{+0.0}_{-0.0}$  |
| 9-10             | $11.3 \pm 1.7 \pm 0.5 ^{+1.3}_{-2.5}$    | $6.9 \pm 1.0 \pm 0.3 ^{+0.4}_{-0.8}$     | $5.7 \pm 0.8 \pm 0.3 ^{+0.2}_{-0.3}$  | $2.5 \pm 0.6 \pm 0.1 ^{+0.0}_{-0.1}$  | $3.2 \pm 0.9 \pm 0.2 ^{+0.1}_{-0.1}$  |
| 10-11            | $8.4 \pm 1.5 \pm 0.4 ^{+1.0}_{-2.0}$     | $5.5 \pm 0.9 \pm 0.3 ^{+0.3}_{-0.6}$     | $4.3 \pm 0.7 \pm 0.2 ^{+0.1}_{-0.2}$  | $2.6 \pm 0.6 \pm 0.1 ^{+0.1}_{-0.1}$  | -                                     |
| 11-12            | $8.7 \pm 1.4 \pm 0.4 ^{+0.9}_{-1.7}$     | $4.4 \pm 0.7 \pm 0.2 ^{+0.2}_{-0.3}$     | $3.2 \pm 0.6 \pm 0.2 ^{+0.1}_{-0.2}$  | $1.8 \pm 0.5 \pm 0.1 ^{+0.0}_{-0.1}$  | -                                     |
| 12-13            | $4.5 \pm 1.0 \pm 0.2 ^{+0.4}_{-0.9}$     | $3.2 \pm 0.6 \pm 0.2 ^{+0.1}_{-0.3}$     | $3.5 \pm 0.7 \pm 0.2  ^{+0.1}_{-0.1}$ | -                                     | -                                     |
| 13-14            | $2.4 \pm 0.7 \pm 0.1 ^{+0.2}_{-0.4}$     | $0.7 \pm 0.3 \pm 0.0 ^{+0.0}_{-0.1}$     | $2.1 \pm 0.5 \pm 0.1 ^{+0.0}_{-0.1}$  | -                                     | -                                     |
| 14-15            | $0.7 \pm 0.4 \pm 0.0 ^{+0.1}_{-0.1}$     | $1.5 \pm 0.4 \pm 0.1 ^{+0.1}_{-0.1}$     | $0.9 \pm 0.3 \pm 0.0 ^{+0.0}_{-0.0}$  | -                                     | -                                     |