

| Bin | $H_T^{\text{miss}}$<br>[GeV] | $H_T$<br>[GeV] | $N_{\text{jet}}$ | $N_{b\text{-jet}}$ | Lost-lepton<br>background     | $Z \rightarrow \nu\bar{\nu}$<br>background | QCD<br>background               | Total<br>background           | Observed |
|-----|------------------------------|----------------|------------------|--------------------|-------------------------------|--|---------------------------------|-------------------------------|----------|
| 71  | 300–350                      | 300–600        | 6–7              | 0                  | $686 \pm 29 \pm 11$           | $761 \pm 17 \pm 63$                        | $144 \pm 83_{-61}^{+92}$        | $1590 \pm 90_{-90}^{+110}$    | 1480     |
| 72  | 300–350                      | 600–1200       | 6–7              | 0                  | $967 \pm 25 \pm 14$           | $873 \pm 18 \pm 65$                        | $280 \pm 140 \pm 130$           | $2110 \pm 140 \pm 150$        | 1993     |
| 73  | 300–350                      | $\geq 1200$    | 6–7              | 0                  | $121.5 \pm 8.8 \pm 2.8$       | $116.8 \pm 7.3 \pm 9.2$                    | $172 \pm 86 \pm 74$             | $410 \pm 87 \pm 75$           | 362      |
| 74  | 350–600                      | 350–600        | 6–7              | 0                  | $353 \pm 21 \pm 8$            | $514 \pm 14 \pm 40$                        | $33 \pm 20 \pm 14$              | $901 \pm 32 \pm 44$           | 847      |
| 75  | 350–600                      | 600–1200       | 6–7              | 0                  | $1219 \pm 28 \pm 28$          | $1540 \pm 20 \pm 110$                      | $130 \pm 65 \pm 63$             | $2890 \pm 80 \pm 130$         | 2842     |
| 76  | 350–600                      | $\geq 1200$    | 6–7              | 0                  | $208 \pm 11 \pm 4$            | $258 \pm 11 \pm 18$                        | $81 \pm 40 \pm 35$              | $547 \pm 43 \pm 39$           | 553      |
| 77  | 600–850                      | 600–1200       | 6–7              | 0                  | $76.1_{-1.0}^{+1.0} \pm 1.0$  | $182 \pm 8 \pm 15$                         | $1.70 \pm 0.88 \pm 0.81$        | $259 \pm 11 \pm 15$           | 245      |
| 78  | 600–850                      | $\geq 1200$    | 6–7              | 0                  | $29.7 \pm 4.2 \pm 0.5$        | $72.8 \pm 5.6 \pm 5.7$                     | $2.3 \pm 1.2 \pm 1.0$           | $104.8_{-6.7}^{+7.4} \pm 5.8$ | 122      |
| 79  | $\geq 850$                   | 850–1700       | 6–7              | 0                  | $18.5 \pm 3.5 \pm 0.3$        | $35.2 \pm 3.6 \pm 3.8$                     | $0.10 \pm 0.07_{-0.02}^{+0.04}$ | $53.8_{-4.7}^{+5.4} \pm 3.9$  | 55       |
| 80  | $\geq 850$                   | $\geq 1700$    | 6–7              | 0                  | $4.3_{-1.4}^{+2.0} \pm 0.2$   | $12.7 \pm 2.3 \pm 1.9$                     | $0.05 \pm 0.04_{-0.01}^{+0.02}$ | $17.0_{-2.6}^{+3.2} \pm 1.9$  | 20       |
| 81  | 300–350                      | 300–600        | 6–7              | 1                  | $675 \pm 25 \pm 12$           | $248 \pm 6 \pm 45$                         | $42 \pm 22_{-20}^{+27}$         | $965 \pm 34 \pm 53$           | 946      |
| 82  | 300–350                      | 600–1200       | 6–7              | 1                  | $950 \pm 26 \pm 15$           | $289 \pm 6 \pm 52$                         | $115 \pm 58 \pm 55$             | $1355 \pm 63 \pm 77$          | 1282     |
| 83  | 300–350                      | $\geq 1200$    | 6–7              | 1                  | $105.6_{-8.4}^{+9.1} \pm 2.7$ | $39.3 \pm 2.5 \pm 7.1$                     | $57 \pm 28 \pm 24$              | $201 \pm 30 \pm 26$           | 197      |
| 84  | 350–600                      | 350–600        | 6–7              | 1                  | $252 \pm 16 \pm 5$            | $168 \pm 5 \pm 30$                         | $9.5 \pm 5.0 \pm 4.3$           | $429 \pm 18 \pm 31$           | 425      |
| 85  | 350–600                      | 600–1200       | 6–7              | 1                  | $1050 \pm 28 \pm 19$          | $510 \pm 8 \pm 91$                         | $53 \pm 27 \pm 26$              | $1614 \pm 39 \pm 96$          | 1521     |
| 86  | 350–600                      | $\geq 1200$    | 6–7              | 1                  | $155 \pm 11 \pm 4$            | $86 \pm 4 \pm 15$                          | $26 \pm 13 \pm 11$              | $268 \pm 17 \pm 20$           | 269      |
| 87  | 600–850                      | 600–1200       | 6–7              | 1                  | $34.7_{-4.8}^{+5.4} \pm 0.6$  | $60 \pm 3 \pm 11$                          | $0.69 \pm 0.41_{-0.28}^{+0.33}$ | $95 \pm 6 \pm 11$             | 90       |
| 88  | 600–850                      | $\geq 1200$    | 6–7              | 1                  | $25.9 \pm 4.3 \pm 0.4$        | $24.4 \pm 1.9 \pm 4.4$                     | $0.59 \pm 0.34 \pm 0.25$        | $50.9_{-4.4}^{+5.1} \pm 4.4$  | 49       |
| 89  | $\geq 850$                   | 850–1700       | 6–7              | 1                  | $7.9_{-2.2}^{+2.9} \pm 0.1$   | $11.5 \pm 1.1 \pm 2.3$                     | $0.05 \pm 0.04_{-0.00}^{+0.02}$ | $19.4_{-2.5}^{+3.2} \pm 2.3$  | 17       |
| 90  | $\geq 850$                   | $\geq 1700$    | 6–7              | 1                  | $1.5_{-1.0}^{+2.0} \pm 0.0$   | $4.29_{-0.72}^{+0.85} \pm 0.95$            | $0.04_{-0.04}^{+0.05} \pm 0.02$ | $5.9_{-1.2}^{+2.2} \pm 0.9$   | 7        |
| 91  | 300–350                      | 300–600        | 6–7              | 2                  | $376 \pm 19 \pm 8$            | $64 \pm 2 \pm 13$                          | $9.8 \pm 5.5_{-4.2}^{+6.3}$     | $450 \pm 20 \pm 16$           | 450      |
| 92  | 300–350                      | 600–1200       | 6–7              | 2                  | $693 \pm 23 \pm 10$           | $76 \pm 2 \pm 15$                          | $34 \pm 17 \pm 16$              | $803 \pm 28 \pm 25$           | 797      |
| 93  | 300–350                      | $\geq 1200$    | 6–7              | 2                  | $46.7_{-5.7}^{+6.4} \pm 0.7$  | $10.5 \pm 0.7 \pm 2.1$                     | $18.7 \pm 9.4 \pm 8.1$          | $76 \pm 11 \pm 8$             | 84       |
| 94  | 350–600                      | 350–600        | 6–7              | 2                  | $120 \pm 12 \pm 2$            | $43.6 \pm 1.2 \pm 8.9$                     | $2.1 \pm 1.2 \pm 0.9$           | $165 \pm 12 \pm 9$            | 188      |
| 95  | 350–600                      | 600–1200       | 6–7              | 2                  | $661 \pm 23 \pm 11$           | $134 \pm 2 \pm 27$                         | $14.6 \pm 7.5 \pm 7.0$          | $809 \pm 24 \pm 30$           | 762      |
| 96  | 350–600                      | $\geq 1200$    | 6–7              | 2                  | $66.6 \pm 7.3 \pm 2.2$        | $22.8 \pm 0.9 \pm 4.6$                     | $7.5 \pm 3.8 \pm 3.2$           | $96.9 \pm 8.3 \pm 6.0$        | 106      |
| 97  | 600–850                      | 600–1200       | 6–7              | 2                  | $19.3_{-3.9}^{+4.7} \pm 0.3$  | $15.7 \pm 0.7 \pm 3.2$                     | $0.15 \pm 0.10 \pm 0.06$        | $35.2 \pm 4.3 \pm 3.2$        | 32       |
| 98  | 600–850                      | $\geq 1200$    | 6–7              | 2                  | $8.0_{-2.4}^{+3.2} \pm 0.2$   | $6.5 \pm 0.5 \pm 1.3$                      | $0.09 \pm 0.07_{-0.01}^{+0.04}$ | $14.5_{-2.4}^{+3.3} \pm 1.3$  | 14       |
| 99  | $\geq 850$                   | 850–1700       | 6–7              | 2                  | $1.8_{-1.0}^{+1.7} \pm 0.0$   | $2.98 \pm 0.30 \pm 0.65$                   | $0.05 \pm 0.04_{-0.01}^{+0.02}$ | $4.8_{-0.5}^{+1.8} \pm 0.7$   | 9        |
| 100 | $\geq 850$                   | $\geq 1700$    | 6–7              | 2                  | $0.5_{-0.4}^{+1.2} \pm 0.0$   | $1.15_{-0.19}^{+0.23} \pm 0.28$            | $0.02 \pm 0.02_{-0.00}^{+0.01}$ | $1.7_{-0.5}^{+1.2} \pm 0.3$   | 1        |
| 101 | 300–350                      | 300–600        | 6–7              | $\geq 3$           | $67.8_{-7.9}^{+8.8} \pm 1.6$  | $8.8 \pm 0.2 \pm 3.7$                      | $1.4 \pm 1.0_{-0.4}^{+0.9}$     | $78.0 \pm 8.5 \pm 4.0$        | 86       |
| 102 | 300–350                      | 600–1200       | 6–7              | $\geq 3$           | $136 \pm 11 \pm 2$            | $10.5 \pm 0.2 \pm 4.3$                     | $7.4 \pm 4.2_{-3.2}^{+3.6}$     | $154 \pm 11 \pm 6$            | 167      |
| 103 | 300–350                      | $\geq 1200$    | 6–7              | $\geq 3$           | $15.7_{-3.4}^{+4.1} \pm 0.2$  | $1.44 \pm 0.09 \pm 0.59$                   | $3.9 \pm 2.2 \pm 1.7$           | $21.1 \pm 4.3 \pm 1.8$        | 16       |
| 104 | 350–600                      | 350–600        | 6–7              | $\geq 3$           | $20.6_{-4.3}^{+5.3} \pm 0.5$  | $6.0 \pm 0.2 \pm 2.5$                      | $0.68 \pm 0.62_{-0.07}^{+0.31}$ | $27.2_{-4.4}^{+5.4} \pm 2.5$  | 28       |
| 105 | 350–600                      | 600–1200       | 6–7              | $\geq 3$           | $137 \pm 11 \pm 4$            | $18.5 \pm 0.3 \pm 7.6$                     | $2.8 \pm 1.6 \pm 1.3$           | $158 \pm 11 \pm 9$            | 115      |
| 106 | 350–600                      | $\geq 1200$    | 6–7              | $\geq 3$           | $15.4_{-3.5}^{+4.4} \pm 0.6$  | $3.1 \pm 0.1 \pm 1.3$                      | $1.7 \pm 1.0_{-0.7}^{+0.8}$     | $20.2_{-3.7}^{+4.5} \pm 1.6$  | 23       |
| 107 | 600–850                      | 600–1200       | 6–7              | $\geq 3$           | $4.1_{-1.7}^{+2.5} \pm 0.0$   | $2.16 \pm 0.10 \pm 0.89$                   | $0.05_{-0.05}^{+0.06} \pm 0.02$ | $6.3_{-1.5}^{+2.5} \pm 0.9$   | 6        |
| 108 | 600–850                      | $\geq 1200$    | 6–7              | $\geq 3$           | $2.1_{-1.1}^{+2.0} \pm 0.0$   | $0.89 \pm 0.07 \pm 0.37$                   | $0.07 \pm 0.06_{-0.01}^{+0.03}$ | $3.0_{-1.1}^{+2.0} \pm 0.4$   | 2        |
| 109 | $\geq 850$                   | 850–1700       | 6–7              | $\geq 3$           | $0.0_{-1.0}^{+1.2} \pm 0.0$   | $0.41 \pm 0.04 \pm 0.17$                   | $0.05 \pm 0.04_{-0.01}^{+0.02}$ | $0.5_{-0.1}^{+1.2} \pm 0.2$   | 1        |
| 110 | $\geq 850$                   | $\geq 1700$    | 6–7              | $\geq 3$           | $0.0_{-0.0}^{+1.9} \pm 0.0$   | $0.16 \pm 0.03 \pm 0.07$                   | $0.02 \pm 0.02_{-0.00}^{+0.01}$ | $0.2_{-0.0}^{+1.9} \pm 0.1$   | 1        |