

Table 3. Calculated Isolated Galaxy and Absorption Properties

| (1)<br>QSO | (2)<br>J-Name        | (3)<br>$z_{\text{gal}}$ | Mg II Absorption        |                           |               |                         |                     | B-band            |                 |                     |                    |                 | K-band              |               |  |  |  |
|------------|----------------------|-------------------------|-------------------------|---------------------------|---------------|-------------------------|---------------------|-------------------|-----------------|---------------------|--------------------|-----------------|---------------------|---------------|--|--|--|
|            |                      |                         | (4)<br>$z_{\text{abs}}$ | (5)<br>$W_r(2796)$<br>(Å) | (6)<br>$DR$   | (7)<br>Ref <sup>a</sup> | (8)<br>$D$<br>(kpc) | (9)<br>$K_{By}^b$ | (10)<br>$M_B^c$ | (11)<br>$L_B/L_B^*$ | (12)<br>$K_{Ky}^d$ | (13)<br>$M_K^c$ | (14)<br>$L_K/L_K^*$ | (15)<br>$B-K$ |  |  |  |
| 0002-422   | J000448.11-415728.8  | 0.840                   | 0.836627                | 4.422 ± 0.002             | 1.12 ± 0.09   | 13                      | 53.8                | -0.08             | -21.04          | 0.66                | ...                | ...             | ...                 | ...           |  |  |  |
| 0002+051   | J000520.21+052411.80 | 0.298                   | 0.298059                | 0.244 ± 0.003             | 1.336 ± 0.029 | 3                       | 59.2                | -1.39             | -19.78          | 0.38                | -0.52              | -22.22          | 0.64                | 2.43          |  |  |  |
| 0002+051   | J000520.21+052411.80 | 0.592                   | 0.591365                | 0.102 ± 0.002             | 1.539 ± 0.039 | 3                       | 36.0                | -0.80             | -20.88          | 0.76                | -0.53              | -22.94          | 1.08                | 2.05          |  |  |  |
| 0002+051   | J000520.21+052411.80 | 0.85180                 | 0.851393                | 1.089 ± 0.008             | 1.160 ± 0.013 | 3                       | 25.9                | -0.64             | -20.91          | 0.58                | -0.88              | -21.65          | 0.29                | 0.74          |  |  |  |
| SDSS       | J003340.21-005525.53 | 0.2124                  | 0.2121                  | 1.05 ± 0.03               | ...           | 6                       | 21.7                | 0.20              | -20.87          | 1.15                | 0.06               | -21.83          | 0.47                | 0.96          |  |  |  |
| SDSS       | J003407.34-085452.07 | 0.3617                  | 0.3616                  | 0.48 ± 0.05               | ...           | 6                       | 33.1                | 0.54              | -19.57          | 0.29                | 0.13               | -20.59          | 0.14                | 1.02          |  |  |  |
| SDSS       | J003413.04-010026.86 | 0.2564                  | 0.2564                  | 0.61 ± 0.06               | ...           | 6                       | 30.4                | 0.80              | -19.68          | 0.37                | 0.43               | -21.68          | 0.40                | 1.99          |  |  |  |
| 0058+019   | J010054.15+021136.52 | 0.6128                  | 0.612586                | 1.684 ± 0.004             | 1.06 ± 0.09   | 13                      | 29.5                | -0.40             | -19.14          | 0.15                | -0.59              | -20.47          | 0.11                | 1.32          |  |  |  |
| 0058+019   | J010054.15+021136.52 | 0.680                   | 0.680                   | < 0.0034                  | ...           | 2                       | 45.6                | -0.34             | -20.76          | 0.61                | -0.63              | -21.96          | 0.42                | 1.20          |  |  |  |
| SDSS       | J010135.84-005009.08 | 0.2615                  | 0.2615                  | < 0.11                    | ...           | 6                       | 50.9                | 0.82              | -20.53          | 0.80                | 0.44               | -22.34          | 0.74                | 1.81          |  |  |  |
| SDSS       | J010156.32-084401.74 | 0.1588                  | 0.1586                  | 0.36 ± 0.03               | ...           | 6                       | 28.4                | 0.11              | -18.44          | 0.13                | 0.14               | -19.93          | 0.08                | 1.49          |  |  |  |
| SDSS       | J010352.47+003739.79 | 0.3515                  | 0.3508                  | 0.38 ± 0.03               | ...           | 6                       | 48.3                | 0.71              | -19.48          | 0.27                | 0.27               | -20.85          | 0.17                | 1.37          |  |  |  |
| 0102-190   | J010516.82-184641.9  | 1.025                   | 1.0262                  | 0.67 ± 0.05               | 0.971 ± 0.1   | 1                       | 40.0                | 0.28              | -21.64          | 0.93                | ...                | ...             | ...                 | ...           |  |  |  |
| 0109+200   | J011210.18+202021.79 | 0.534                   | 0.5346                  | 2.26 ± 0.05               | 1.32 ± 0.09   | 3                       | 44.7                | -0.95             | -19.30          | 0.19                | -0.51              | -23.39          | 1.68                | 4.09          |  |  |  |
| 0117+213   | J012017.20+213346.00 | 0.5763                  | 0.576398                | 0.902 ± 0.007             | 1.070 ± 0.01  | 13                      | 7.8                 | -0.40             | -21.58          | 1.47                | -0.52              | -23.68          | 2.14                | 2.09          |  |  |  |
| 0117+213   | J012017.20+213346.00 | 0.729                   | 0.729077                | 0.244 ± 0.005             | 1.839 ± 0.088 | 3                       | 55.4                | -0.38             | -21.90          | 1.67                | -0.59              | -24.03          | 2.79                | 2.12          |  |  |  |
| 0122-003   | J012528.84-000555.93 | 0.3788                  | 0.3791                  | 0.05 ± 0.01               | ...           | 5                       | 77.7                | -0.52             | -20.43          | 0.64                | -0.58              | -21.20          | 0.24                | 0.76          |  |  |  |
| 0122-003   | J012528.87-000555.93 | 0.398525                | 0.399410                | 0.399 ± 0.01              | 1.352 ± 0.056 | 15                      | 163.0               | -0.61             | -21.32          | 1.41                | ...                | ...             | ...                 | 1.80          |  |  |  |
| 0141+339   | J014411.70+341157.92 | 0.4708                  | 0.4708                  | 0.78 ± 0.07               | 1.200 ± 0.17  | 7                       | 38.1                | -0.57             | -18.67          | 0.11                | -0.57              | -19.60          | 0.05                | 0.92          |  |  |  |
| 0150-202   | J015227.32-200107.10 | 0.603                   | 0.603                   | < 0.0348                  | ...           | 2                       | 53.9                | -0.47             | -22.08          | 2.25                | -0.61              | -22.91          | 1.04                | 0.82          |  |  |  |
| 0150-202   | J015227.32-200107.10 | 0.780                   | 0.780                   | 0.36 ± 0.04               | 1.710 ± 0.38  | 7                       | 54.7                | -0.14             | -20.97          | 0.67                | -0.70              | -22.01          | 0.42                | 1.03          |  |  |  |
| SDSS       | J015453.03-095535.39 | 0.5663                  | 0.5663                  | < 0.30                    | ...           | 11                      | 56.7                | 1.27              | -21.36          | 1.21                | 0.64               | -23.01          | 1.16                | 1.64          |  |  |  |
| SDSS       | J021558.40-011135.79 | 0.2103                  | 0.2108                  | 0.77 ± 0.05               | ...           | 6                       | 27.6                | 0.20              | -20.14          | 0.59                | 0.05               | -21.21          | 0.27                | 1.06          |  |  |  |
| SDSS       | J022950.32-074256.77 | 0.3866                  | 0.3861                  | 1.74 ± 0.04               | ...           | 6                       | 27.6                | 0.59              | -20.11          | 0.47                | 0.16               | -21.28          | 0.25                | 1.16          |  |  |  |
| 0229+131   | J023145.89+132254.71 | 0.4167                  | 0.417338                | 0.816 ± 0.02              | 1.163 ± 0.042 | 3                       | 36.9                | -1.21             | -20.95          | 0.99                | -0.52              | -22.99          | 1.23                | 2.04          |  |  |  |
| 0235+164   | J023838.93+163659.27 | 0.524                   | 0.524                   | 2.34 ± 0.05               | 1.06 ± 0.09   | 3                       | 12.1                | -0.90             | -21.26          | 1.16                | -0.56              | -22.69          | 0.88                | 1.43          |  |  |  |
| 0235+164   | J023838.93+163659.27 | 0.852                   | 0.852                   | 0.44 ± 0.05               | ...           | 7                       | 7.6                 | 0.12              | -21.86          | 1.39                | -0.69              | -23.35          | 1.41                | 1.48          |  |  |  |

Table 3—Continued

| (1)<br>QSO | (2)<br>J-Name        | Mg II Absorption        |                         |                           |                   |                         | B-band              |                              |                 |                     |                               | K-band          |                     |               |  |  |
|------------|----------------------|-------------------------|-------------------------|---------------------------|-------------------|-------------------------|---------------------|------------------------------|-----------------|---------------------|-------------------------------|-----------------|---------------------|---------------|--|--|
|            |                      | (3)<br>$z_{\text{gal}}$ | (4)<br>$z_{\text{abs}}$ | (5)<br>$W_r(2796)$<br>(Å) | (6)<br>$DR$       | (7)<br>Ref <sup>a</sup> | (8)<br>$D$<br>(kpc) | (9)<br>$K_{By}$ <sup>b</sup> | (10)<br>$M_B^c$ | (11)<br>$L_B/L_B^*$ | (12)<br>$K_{Ky}$ <sup>d</sup> | (13)<br>$M_K^c$ | (14)<br>$L_K/L_K^*$ | (15)<br>$B-K$ |  |  |
| 0302-223   | J030450.10-221157.00 | 0.418                   | 0.42041                 | $0.727 \pm 0.028$         | $1.154 \pm 0.063$ | 14                      | 126.0               | -0.81                        | -22.67          | 4.80                | ...                           | ...             | ...                 |               |  |  |
| 0302-223   | J030450.10-221157.00 | 1.000                   | 1.009382                | $1.099 \pm 0.036$         | $1.100 \pm 0.04$  | 13                      | 61.2                | 0.24                         | -21.32          | 0.72                | ...                           | ...             | ...                 |               |  |  |
| SDSS       | J032232.58+003649.13 | 0.2185                  | 0.2183                  | $1.31 \pm 0.12$           | ...               | 6                       | 16.0                | 0.28                         | -17.97          | 0.08                | 0.18                          | -19.61          | 0.06                | 1.63          |  |  |
| 0334-204   | J033626.90-201940.00 | 1.120                   | 1.1174                  | $2.06 \pm 0.05$           | $1.177 \pm 0.04$  | 1                       | 64.3                | 0.44                         | -22.33          | 1.59                | ...                           | ...             | ...                 |               |  |  |
| 0349-146   | J035128.54-142908.71 | 0.3567                  | 0.357168                | $0.175 \pm 0.007$         | $1.171 \pm 0.069$ | 3                       | 71.3                | -0.87                        | -20.17          | 0.52                | -0.56                         | -20.46          | 0.12                | 0.28          |  |  |
| SDSS       | J035242.12+001307.32 | 0.3671                  | 0.3677                  | $1.45 \pm 0.05$           | ...               | 6                       | 50.8                | 1.30                         | -20.22          | 0.53                | 0.66                          | -21.95          | 0.48                | 1.73          |  |  |
| 0454-220   | J045608.92-215909.40 | 0.2784                  | 0.2784                  | $< 0.0052$                | ...               | 2                       | 50.3                | -0.85                        | -18.83          | 0.16                | -0.50                         | -19.30          | 0.04                | 0.46          |  |  |
| 0454-220   | J045608.92-215909.40 | 0.3818                  | 0.3818                  | $< 0.0184$                | ...               | 2                       | 102.6               | -1.02                        | -20.22          | 0.52                | -0.49                         | -22.00          | 0.50                | 1.78          |  |  |
| 0454-220   | J045608.92-215909.40 | 0.48382                 | 0.483337                | $0.426 \pm 0.007$         | $1.331 \pm 0.037$ | 3                       | 107.1               | -0.94                        | -21.23          | 1.18                | -0.51                         | -22.90          | 1.09                | 1.66          |  |  |
| 0454+039   | J045647.17+040052.94 | 0.072                   | 0.072                   | $0.72 \pm 0.05$           | $1.10 \pm 0.09$   | 1                       | 5.4                 | -1.04                        | -16.11          | 0.02                | ...                           | ...             | ...                 | ...           |  |  |
| 0454+039   | J045647.17+040052.94 | 0.201                   | 0.201                   | $< 0.0183$                | ...               | 2                       | 87.5                | -1.15                        | -20.49          | 0.82                | -0.40                         | -22.50          | 0.89                | 2.01          |  |  |
| 0454+039   | J045647.17+040052.94 | 0.8596                  | 0.859569                | $1.476 \pm 0.009$         | $1.030 \pm 0.01$  | 13                      | 16.0                | 0.14                         | -19.23          | 0.12                | ...                           | ...             | ...                 | ...           |  |  |
| SDSS       | J075001.85+161305.05 | 0.1466                  | 0.1469                  | $0.26 \pm 0.08$           | ...               | 6                       | 19.6                | 0.06                         | -17.97          | 0.09                | 0.05                          | -19.01          | 0.03                | 1.04          |  |  |
| SDSS       | J075450.04+184952.79 | 0.2856                  | 0.2856                  | $< 0.04$                  | ...               | 6                       | 54.0                | 0.93                         | -20.52          | 0.77                | 0.49                          | -22.36          | 0.74                | 1.84          |  |  |
| SDSS       | J075525.51+172836.59 | 0.2541                  | 0.2546                  | $0.51 \pm 0.02$           | ...               | 6                       | 47.4                | 0.38                         | -20.36          | 0.69                | 0.20                          | -21.91          | 0.49                | 1.54          |  |  |
| SDSS       | J080004.56+184935.15 | 0.2544                  | 0.2536                  | $0.30 \pm 0.04$           | ...               | 6                       | 30.1                | 0.29                         | -20.08          | 0.53                | 0.07                          | -21.01          | 0.21                | 0.92          |  |  |
| SDSS       | J081420.19+383408.3  | 0.09801                 | 0.09833                 | $0.57 \pm 0.05$           | $2.040 \pm 0.37$  | 10                      | 52.5                | -0.62                        | -20.88          | 1.33                | -0.20                         | -22.33          | 0.84                | 1.44          |  |  |
| SDSS       | J082340.18+074801.68 | 0.1864                  | 0.1863                  | $0.37 \pm 0.04$           | ...               | 6                       | 37.3                | 0.45                         | -20.50          | 0.84                | 0.32                          | -22.39          | 0.81                | 1.89          |  |  |
| 0827+243   | J083052.08+241059.82 | 0.258                   | 0.258                   | $< 0.128$                 | ...               | 2                       | 69.5                | -1.08                        | -19.38          | 0.28                | -0.48                         | -21.15          | 0.24                | 1.76          |  |  |
| 0827+243   | J083052.08+241059.82 | 0.5247                  | 0.524966                | $2.419 \pm 0.012$         | $1.041 \pm 0.009$ | 3                       | 37.2                | -0.98                        | -20.86          | 0.80                | -0.51                         | -23.10          | 1.28                | 2.23          |  |  |
| 0836+113   | J083933.01+111203.82 | 0.78682                 | 0.786725                | $2.133 \pm 0.019$         | $1.050 \pm 0.013$ | 3                       | 26.8                | -0.56                        | -20.36          | 0.38                | -0.70                         | -21.23          | 0.20                | 0.86          |  |  |
| SDSS       | J084119.78+012621.75 | 0.4091                  | 0.4084                  | $0.10 \pm 0.02$           | ...               | 6                       | 76.4                | 0.89                         | -21.12          | 1.16                | 0.34                          | -22.44          | 0.74                | 1.31          |  |  |
| SDSS       | J084456.06+004708.95 | 0.1551                  | 0.1554                  | $0.40 \pm 0.05$           | ...               | 6                       | 31.4                | 0.10                         | -19.74          | 0.44                | 0.14                          | -21.21          | 0.28                | 1.46          |  |  |
| SDSS       | J085826.93+022604.49 | 0.1097                  | 0.1097                  | $< 0.09$                  | ...               | 6                       | 91.4                | -0.01                        | -19.18          | 0.27                | 0.05                          | -20.16          | 0.11                | 0.98          |  |  |
| SDSS       | J090519.70+084917.32 | 0.1499                  | 0.1501                  | $0.82 \pm 0.1$            | ...               | 6                       | 8.6                 | -0.00                        | -16.36          | 0.02                | -0.04                         | -16.98          | 0.00                | 0.62          |  |  |
| SDSS       | J090519.70+084917.32 | 0.3856                  | 0.3856                  | $< 0.06$                  | ...               | 6                       | 101.1               | 0.59                         | -20.52          | 0.69                | 0.16                          | -21.77          | 0.40                | 1.24          |  |  |
| SDSS       | J090519.70+084917.32 | 0.4545                  | 0.4545                  | $< 0.06$                  | ...               | 6                       | 86.7                | 0.37                         | -20.48          | 0.61                | -0.01                         | -21.11          | 0.21                | 0.63          |  |  |

Table 3—Continued

| (1)<br>QSO | (2)<br>J-Name        | (3)<br>$z_{\text{gal}}$ | (4)<br>$z_{\text{abs}}$ | Mg II Absorption          |                   |                         | B-band              |                              |                 |                     | K-band                        |                 |                     |               |
|------------|----------------------|-------------------------|-------------------------|---------------------------|-------------------|-------------------------|---------------------|------------------------------|-----------------|---------------------|-------------------------------|-----------------|---------------------|---------------|
|            |                      |                         |                         | (5)<br>$W_r(2796)$<br>(Å) | (6)<br>$DR$       | (7)<br>Ref <sup>a</sup> | (8)<br>$D$<br>(kpc) | (9)<br>$K_{By}$ <sup>b</sup> | (10)<br>$M_B^c$ | (11)<br>$L_B/L_B^*$ | (12)<br>$K_{Ky}$ <sup>d</sup> | (13)<br>$M_K^c$ | (14)<br>$L_K/L_K^*$ | (15)<br>$B-K$ |
| SDSS       | J091119.16+031152.9  | 0.09616                 | 0.09636                 | $0.82 \pm 0.1$            | $2.410 \pm 0.59$  | 10                      | 70.0                | -0.63                        | -20.84          | 1.28                | -0.20                         | -22.51          | 0.99                | 1.66          |
| SDSS       | J091845.91+060226.09 | 0.1849                  | 0.1849                  | $< 0.11$                  | ...               | 6                       | 81.0                | 0.45                         | -20.23          | 0.66                | 0.32                          | -22.27          | 0.73                | 2.03          |
| SDSS       | J092300.67+075108.2  | 0.10385                 | 0.10423                 | $2.25 \pm 0.14$           | $1.610 \pm 0.17$  | 10                      | 10.0                | -0.99                        | -20.99          | 1.46                | -0.19                         | -23.28          | 2.00                | 2.28          |
| SDSS       | J093251.82+073729.11 | 0.3876                  | 0.3876                  | $1.10 \pm 0.02$           | ...               | 6                       | 35.9                | 0.60                         | -20.78          | 0.87                | 0.16                          | -21.88          | 0.45                | 1.10          |
| SDSS       | J093536.98+112408.03 | 0.2808                  | 0.2811                  | $0.79 \pm 0.04$           | ...               | 6                       | 20.0                | 0.35                         | -19.79          | 0.40                | 0.07                          | -20.90          | 0.19                | 1.10          |
| 0950+483   | J095000.73+483129.3  | 0.211865                | 0.211620                | $0.608 \pm 0.024$         | $1.242 \pm 0.059$ | 15                      | 93.6                | -1.49                        | -20.61          | 0.90                | ...                           | ...             | ...                 | 2.39          |
| SDSS       | J100807.51+014448.97 | 0.2173                  | 0.2173                  | $< 0.30$                  | ...               | 6                       | 163.8               | 0.28                         | -21.65          | 2.34                | 0.17                          | -22.99          | 1.38                | 1.33          |
| SDSS       | J100906.36+023555.31 | 0.2523                  | 0.2521                  | $0.10 \pm 0.01$           | ...               | 6                       | 33.7                | 0.78                         | -20.60          | 0.86                | 0.42                          | -22.57          | 0.92                | 1.96          |
| SDSS       | J102218.98+013218.82 | 0.1369                  | 0.1369                  | $< 0.17$                  | ...               | 6                       | 106.0               | 0.19                         | -20.55          | 0.94                | 0.26                          | -22.67          | 1.10                | 2.11          |
| 1019+309   | J102230.29+304105.11 | 0.346                   | 0.346247                | $0.624 \pm 0.017$         | $1.484 \pm 0.068$ | 14                      | 46.0                | -0.98                        | -19.96          | 0.43                | -0.56                         | -21.20          | 0.24                | 1.23          |
| SDSS       | J102751.62+104532.61 | 0.1093                  | 0.1093                  | $< 0.23$                  | ...               | 12                      | 80.8                | -0.62                        | -21.65          | 2.66                | -0.22                         | -23.06          | 1.63                | 1.40          |
| SDSS       | J102847.00+391800.5  | 0.11348                 | 0.11411                 | $0.30 \pm 0.02$           | $2.230 \pm 0.36$  | 10                      | 87.2                | -0.01                        | -20.98          | 1.42                | 0.05                          | -22.12          | 0.68                | 1.13          |
| SDSS       | J103607.51+015659.14 | 0.3571                  | 0.3571                  | $< 0.03$                  | ...               | 6                       | 169.9               | 0.53                         | -21.93          | 2.60                | 0.12                          | -23.08          | 1.38                | 1.15          |
| SDSS       | J103836.50+095138.85 | 0.1742                  | 0.1744                  | $1.04 \pm 0.06$           | ...               | 6                       | 15.1                | 0.16                         | -18.52          | 0.14                | 0.15                          | -20.03          | 0.09                | 1.51          |
| 1038+064   | J104117.16+061016.92 | 0.3157                  | 0.3157                  | $< 0.0296$                | ...               | 2                       | 53.6                | -1.02                        | -18.71          | 0.14                | -0.53                         | -20.92          | 0.19                | 2.20          |
| 1038+064   | J104117.16+061016.92 | 0.4432                  | 0.441453                | $0.673 \pm 0.011$         | $1.338 \pm 0.041$ | 3                       | 55.9                | -1.16                        | -20.29          | 0.52                | -0.51                         | -23.11          | 1.35                | 2.81          |
| SDSS       | J104935.99+075813.74 | 0.4793                  | 0.4793                  | $< 0.30$                  | ...               | 11                      | 176.5               | 1.62                         | -20.98          | 0.94                | 1.09                          | -24.28          | 3.91                | 3.30          |
| SDSS       | J105033.08-001354.84 | 0.1155                  | 0.1155                  | $< 0.16$                  | ...               | 12                      | 85.1                | -0.62                        | -21.45          | 2.19                | -0.24                         | -22.86          | 1.34                | 1.40          |
| 1100-264   | J110325.29-264515.7  | 0.359                   | 0.358989                | $0.545 \pm 0.001$         | $1.255 \pm 0.004$ | 14                      | 60.8                | -0.86                        | -20.23          | 0.54                | ...                           | ...             | ...                 | ...           |
| SDSS       | J111342.42-000730.80 | 0.1094                  | 0.1094                  | $< 0.25$                  | ...               | 12                      | 49.8                | -0.98                        | -21.33          | 1.97                | -0.20                         | -23.54          | 2.54                | 2.21          |
| SDSS       | J111850.13-002100.7  | 0.13159                 | 0.13158                 | $1.93 \pm 0.08$           | $1.060 \pm 0.06$  | 10                      | 27.1                | 0.05                         | -21.01          | 1.44                | 0.13                          | -22.56          | 1.00                | 1.54          |
| SDSS       | J112016.66+093323.53 | 0.4933                  | 0.4933                  | $2.14 \pm 0.03$           | ...               | 6                       | 34.0                | 0.77                         | -21.33          | 1.28                | 0.30                          | -22.40          | 0.68                | 1.07          |
| SDSS       | J112613.52+352002.60 | 0.1117                  | 0.1117                  | $< 0.20$                  | ...               | 12                      | 97.7                | -0.98                        | -20.54          | 0.96                | -0.21                         | -22.64          | 1.10                | 2.10          |
| 1127-145   | J113007.05-144927.38 | 0.20735                 | 0.20735                 | $< 0.0045$                | ...               | 2                       | 114.3               | -1.51                        | -18.77          | 0.17                | ...                           | ...             | ...                 | ...           |
| 1127-145   | J113007.05-144927.38 | 0.27921                 | 0.27921                 | $< 0.0041$                | ...               | 2                       | 117.4               | -1.48                        | -19.17          | 0.22                | ...                           | ...             | ...                 | ...           |
| 1127-145   | J113007.05-144927.38 | 0.30515                 | 0.30515                 | $< 0.0039$                | ...               | 2                       | 193.5               | -1.47                        | -20.12          | 0.52                | ...                           | ...             | ...                 | ...           |
| 1127-145   | J113007.05-144927.38 | 0.33293                 | 0.33293                 | $< 0.0038$                | ...               | 9                       | 180.9               | -1.45                        | -20.09          | 0.49                | ...                           | ...             | ...                 | ...           |

Table 3—Continued

| (1)<br>QSO | (2)<br>J-Name        | (3)<br>$z_{\text{gal}}$ | Mg II Absorption        |                           |                   |                         | B-band              |                   |                 |                     | K-band             |                 |                     |               |
|------------|----------------------|-------------------------|-------------------------|---------------------------|-------------------|-------------------------|---------------------|-------------------|-----------------|---------------------|--------------------|-----------------|---------------------|---------------|
|            |                      |                         | (4)<br>$z_{\text{abs}}$ | (5)<br>$W_r(2796)$<br>(Å) | (6)<br>$DR$       | (7)<br>Ref <sup>a</sup> | (8)<br>$D$<br>(kpc) | (9)<br>$K_{By}^b$ | (10)<br>$M_B^c$ | (11)<br>$L_B/L_B^*$ | (12)<br>$K_{Ky}^d$ | (13)<br>$M_K^c$ | (14)<br>$L_K/L_K^*$ | (15)<br>$B-K$ |
| SDSS       | J113757.02+085017.21 | 0.3356                  | 0.336                   | $0.91 \pm 0.06$           | ...               | 6                       | 31.1                | 0.49              | -19.96          | 0.43                | 0.10               | -21.04          | 0.21                | 1.08          |
| SDSS       | J114144.62+080614.79 | 0.2290                  | 0.2286                  | $0.31 \pm 0.03$           | ...               | 6                       | 76.7                | 0.24              | -20.40          | 0.73                | 0.06               | -21.37          | 0.31                | 0.97          |
| SDSS       | J114144.62+080614.79 | 0.3583                  | 0.3585                  | $0.49 \pm 0.02$           | ...               | 6                       | 61.1                | 0.73              | -20.90          | 1.00                | 0.28               | -22.12          | 0.57                | 1.22          |
| SDSS       | J114444.63+071443.75 | 0.4906                  | 0.4906                  | $0.60 \pm 0.1$            | ...               | 11                      | 97.6                | 1.66              | -21.80          | 1.98                | 1.14               | -24.29          | 3.92                | 2.49          |
| SDSS       | J114518.47+451601.4  | 0.13389                 | 0.13402                 | $1.06 \pm 0.06$           | $0.990 \pm 0.07$  | 10                      | 38.6                | -0.36             | -21.60          | 2.47                | -0.29              | -22.29          | 0.78                | 0.69          |
| SDSS       | J114657.91+020712.69 | 0.5437                  | 0.5437                  | $1.60 \pm 0.2$            | ...               | 11                      | 74.7                | 1.85              | -22.22          | 2.74                | 1.38               | -24.31          | 3.89                | 2.09          |
| SDSS       | J114803.17+565411.4  | 0.10451                 | 0.10433                 | $1.59 \pm 0.06$           | $1.270 \pm 0.07$  | 10                      | 29.5                | -0.99             | -20.94          | 1.39                | -0.19              | -23.33          | 2.10                | 2.39          |
| 1148+387   | J115129.37+382552.35 | 0.5536                  | 0.55363                 | $0.64 \pm 0.013$          | $1.749 \pm 0.067$ | 3                       | 20.4                | -0.87             | -20.81          | 0.74                | -0.59              | -22.00          | 0.46                | 1.19          |
| SDSS       | J120932.26+004555.92 | 0.2533                  | 0.2533                  | $< 0.09$                  | ...               | 6                       | 54.2                | 0.78              | -19.46          | 0.30                | 0.42               | -21.12          | 0.24                | 1.65          |
| 1209+107   | J121140.59+103002.02 | 0.392                   | 0.392924                | $1.187 \pm 0.005$         | $1.437 \pm 0.012$ | 3                       | 37.5                | -0.97             | -19.01          | 0.17                | -0.56              | -20.04          | 0.08                | 1.02          |
| 1222+228   | J122527.39+223513.0  | 0.5502                  | 0.550198                | $0.094 \pm 0.009$         | $1.562 \pm 0.242$ | 3                       | 37.7                | -0.91             | -19.19          | 0.17                | -0.51              | -21.37          | 0.25                | 2.17          |
| 1229-021   | J123200.01-022405.27 | 0.7546                  | 0.756903                | $0.303 \pm 0.003$         | $1.280 \pm 0.02$  | 13                      | 12.4                | -0.12             | -20.32          | 0.38                | -0.66              | -21.66          | 0.31                | 1.33          |
| 1241+572   | J124154.02+572107.3  | 0.205267                | 0.205563                | $0.977 \pm 0.054$         | $1.185 \pm 0.096$ | 15                      | 21.1                | -0.83             | -19.29          | 0.27                | ...                | ...             | ...                 | 1.19          |
| 1241+176   | J124410.82+172104.52 | 0.550                   | 0.550482                | $0.465 \pm 0.011$         | $1.290 \pm 0.043$ | 3                       | 21.1                | -0.87             | -20.33          | 0.48                | -0.57              | -21.68          | 0.34                | 1.34          |
| 1245+345   | J124727.83+341509.56 | 0.941                   | 0.941                   | $0.46 \pm 0.04$           | $1.210 \pm 0.17$  | 7                       | 27.4                | -0.15             | -20.89          | 0.51                | -0.94              | -21.63          | 0.28                | 0.74          |
| 1246-057   | J124913.85-055919.07 | 0.637                   | 0.639909                | $0.450 \pm 0.004$         | $1.178 \pm 0.016$ | 3                       | 29.0                | -0.75             | -20.02          | 0.33                | -0.61              | -21.66          | 0.32                | 1.63          |
| 1248+401   | J125048.32+395139.48 | 0.7725                  | 0.772957                | $0.695 \pm 0.005$         | $1.280 \pm 0.02$  | 13                      | 35.4                | -0.15             | -19.90          | 0.25                | -0.69              | -21.18          | 0.19                | 1.28          |
| 1254+047   | J125659.92+042734.39 | 0.9341                  | 0.934231                | $0.338 \pm 0.005$         | $1.500 \pm 0.04$  | 13                      | 12.5                | 0.32              | -19.93          | 0.21                | -0.72              | -21.16          | 0.18                | 1.22          |
| SDSS       | J125739.22+144806.26 | 0.4648                  | 0.4644                  | $0.12 \pm 0.02$           | ...               | 6                       | 33.8                | 0.38              | -21.42          | 1.44                | -0.01              | -21.91          | 0.44                | 0.48          |
| SDSS       | J130554.17+014929.82 | 0.1747                  | 0.174                   | $0.45 \pm 0.03$           | ...               | 6                       | 129.8               | 0.39              | -20.98          | 1.33                | 0.30               | -23.14          | 1.64                | 2.15          |
| SDSS       | J130554.17+014929.82 | 0.2258                  | 0.2258                  | $< 0.06$                  | ...               | 6                       | 71.9                | 0.30              | -20.25          | 0.64                | 0.18               | -21.74          | 0.43                | 1.48          |
| SDSS       | J131815.12+012450.67 | 0.5405                  | 0.5405                  | $< 0.30$                  | ...               | 11                      | 105.9               | 1.84              | -21.65          | 1.64                | 1.36               | -23.85          | 2.55                | 2.19          |
| 1317+277   | J131956.23+272808.22 | 0.6610                  | 0.660049                | $0.320 \pm 0.006$         | $1.611 \pm 0.057$ | 3                       | 103.1               | -0.72             | -21.02          | 0.80                | -0.62              | -22.47          | 0.68                | 1.45          |
| 1317+277   | J131956.23+272808.22 | 0.6719                  | 0.6719                  | $< 0.0051$                | ...               | 2                       | 57.7                | -0.70             | -21.47          | 1.19                | -0.62              | -23.01          | 1.11                | 1.54          |
| 1322+464   | J132222.68+464535.22 | 0.214431                | 0.214561                | $0.256 \pm 0.021$         | $2.668 \pm 0.429$ | 15                      | 38.6                | -1.02             | -20.50          | 0.82                | ...                | ...             | ...                 | 1.73          |
| 1321+294   | J132320.55+291007.15 | 0.231                   | 0.231                   | $0.71 \pm 0.05$           | ...               | 7                       | 17.2                | -1.06             | -19.16          | 0.23                | -0.45              | -21.39          | 0.31                | 2.23          |
| SDSS       | J132757.41+101141.78 | 0.2557                  | 0.2553                  | $0.65 \pm 0.04$           | ...               | 6                       | 25.5                | 0.29              | -19.22          | 0.24                | 0.07               | -20.42          | 0.12                | 1.19          |

Table 3—Continued

| (1)<br>QSO | (2)<br>J-Name        | (3)<br>$z_{\text{gal}}$ | Mg II Absorption        |                           |                   |                         | B-band              |                              |                 |                     | K-band                        |                 |                     |               |
|------------|----------------------|-------------------------|-------------------------|---------------------------|-------------------|-------------------------|---------------------|------------------------------|-----------------|---------------------|-------------------------------|-----------------|---------------------|---------------|
|            |                      |                         | (4)<br>$z_{\text{abs}}$ | (5)<br>$W_r(2796)$<br>(Å) | (6)<br>$DR$       | (7)<br>Ref <sup>a</sup> | (8)<br>$D$<br>(kpc) | (9)<br>$K_{By}$ <sup>b</sup> | (10)<br>$M_B^c$ | (11)<br>$L_B/L_B^*$ | (12)<br>$K_{Ky}$ <sup>d</sup> | (13)<br>$M_K^c$ | (14)<br>$L_K/L_K^*$ | (15)<br>$B-K$ |
| SDSS       | J132831.08+075942.01 | 0.2358                  | 0.2362                  | $0.21 \pm 0.05$           | ...               | 6                       | 99.8                | 0.09                         | -20.30          | 0.66                | -0.09                         | -21.14          | 0.25                | 0.84          |
| SDSS       | J132831.08+075942.01 | 0.3323                  | 0.3326                  | $0.59 \pm 0.04$           | ...               | 6                       | 32.5                | 0.65                         | -21.22          | 1.38                | 0.25                          | -22.51          | 0.83                | 1.29          |
| 1331+170   | J133335.78+164904.01 | 0.7443                  | 0.744642                | $1.836 \pm 0.003$         | $1.30 \pm 0.09$   | 13                      | 30.5                | 0.26                         | -20.32          | 0.38                | -0.59                         | -22.34          | 0.58                | 2.02          |
| 1332+552   | J133411.70+550124.98 | 0.373                   | 0.374                   | $2.90 \pm 0.05$           | $1.00 \pm 0.09$   | 3                       | 27.7                | -1.28                        | -20.92          | 1.01                | -0.53                         | -23.00          | 1.26                | 2.07          |
| 1340-006   | J134251.60-005345.3  | 0.227041                | 0.227191                | $1.444 \pm 0.105$         | $1.287 \pm 0.177$ | 15                      | 35.3                | -0.83                        | -21.23          | 1.59                | ...                           | ...             | ...                 | 1.34          |
| 1354+195   | J135704.43+191907.37 | 0.44060                 | 0.4406                  | $< 0.013$                 | ...               | 2                       | 140.2               | -0.98                        | -20.09          | 0.43                | -0.50                         | -21.56          | 0.32                | 1.47          |
| 1354+195   | J135704.43+191907.37 | 0.4592                  | 0.456598                | $0.773 \pm 0.015$         | $1.333 \pm 0.044$ | 3                       | 45.1                | -0.97                        | -20.08          | 0.42                | -0.55                         | -21.48          | 0.30                | 1.40          |
| SDSS       | J140619.61+130106.82 | 0.1748                  | 0.1748                  | $< 0.17$                  | ...               | 6                       | 121.6               | 0.16                         | -20.72          | 1.05                | 0.15                          | -22.47          | 0.89                | 1.74          |
| SDSS       | J140619.61+130106.82 | 0.2220                  | 0.2222                  | $0.96 \pm 0.06$           | ...               | 6                       | 17.7                | 0.22                         | -19.78          | 0.42                | 0.06                          | -20.78          | 0.18                | 0.99          |
| SDSS       | J140843.77+004730.46 | 0.1146                  | 0.1146                  | $< 0.27$                  | ...               | 12                      | 48.6                | -0.97                        | -20.25          | 0.73                | -0.21                         | -22.91          | 1.41                | 2.66          |
| SDSS       | J141654.33-000520.35 | 0.4746                  | 0.4746                  | $< 0.30$                  | ...               | 11                      | 83.7                | 1.61                         | -21.20          | 1.16                | 1.07                          | -24.27          | 3.87                | 3.06          |
| SDSS       | J142310.50+093357.14 | 0.6139                  | 0.6139                  | $< 0.15$                  | ...               | 11                      | 172.6               | 2.14                         | -23.13          | 5.87                | 1.65                          | -25.33          | 9.71                | 2.20          |
| SDSS       | J142556.40-001818.79 | 0.1382                  | 0.1382                  | $< 0.29$                  | ...               | 6                       | 133.5               | 0.20                         | -22.06          | 3.76                | 0.26                          | -24.29          | 4.90                | 2.22          |
| 1424-118   | J142738.10-120350.00 | 0.3404                  | 0.341716                | $0.100 \pm 0.015$         | $1.869 \pm 0.394$ | 3                       | 85.9                | -1.05                        | -20.13          | 0.51                | -0.49                         | -21.91          | 0.47                | 1.77          |
| SDSS       | J143216.78+095519.29 | 0.3293                  | 0.3296                  | $2.36 \pm 0.04$           | ...               | 6                       | 19.0                | 0.64                         | -19.94          | 0.43                | 0.25                          | -21.55          | 0.34                | 1.61          |
| SDSS       | J150339.98+064259.96 | 0.1809                  | 0.1809                  | $< 0.17$                  | ...               | 6                       | 26.1                | 0.43                         | -18.34          | 0.12                | 0.31                          | -20.29          | 0.11                | 1.94          |
| SDSS       | J150339.98+064259.96 | 0.2333                  | 0.2333                  | $< 0.09$                  | ...               | 6                       | 94.6                | 0.25                         | -19.49          | 0.32                | 0.06                          | -20.40          | 0.12                | 0.91          |
| SDSS       | J151228.82-011223.12 | 0.1284                  | 0.1284                  | $0.94 \pm 0.16$           | ...               | 6                       | 25.2                | 0.02                         | -19.04          | 0.23                | 0.05                          | -20.23          | 0.11                | 1.18          |
| 1511+103   | J151329.29+101105.54 | 0.437                   | 0.4369                  | $0.454 \pm 0.046$         | $1.29 \pm 0.09$   | 3                       | 38.0                | -0.95                        | -19.82          | 0.34                | -0.57                         | -20.92          | 0.18                | 1.10          |
| SDSS       | J151541.23+334739.49 | 0.1156                  | 0.1156                  | $< 0.19$                  | ...               | 12                      | 29.7                | -0.62                        | -20.73          | 1.13                | -0.24                         | -22.35          | 0.84                | 1.62          |
| SDSS       | J153112.98+091138.78 | 0.2659                  | 0.266                   | $0.31 \pm 0.03$           | ...               | 6                       | 48.3                | 0.42                         | -19.05          | 0.20                | 0.21                          | -20.86          | 0.18                | 1.81          |
| SDSS       | J153112.98+091138.78 | 0.3265                  | 0.3265                  | $< 0.06$                  | ...               | 6                       | 91.3                | 0.46                         | -19.61          | 0.32                | 0.09                          | -20.83          | 0.17                | 1.22          |
| SDSS       | J153715.34+023049.73 | 0.2151                  | 0.2151                  | $0.80 \pm 0.02$           | ...               | 6                       | 29.0                | 0.06                         | -19.93          | 0.48                | -0.08                         | -20.74          | 0.17                | 0.81          |
| 1548+092   | J155103.39+090849.25 | 0.339                   | 0.339                   | $< 0.0242$                | ...               | 2                       | 103.8               | -0.98                        | -20.69          | 0.85                | -0.53                         | -22.45          | 0.77                | 1.75          |
| 1548+092   | J155103.39+090849.25 | 0.554                   | 0.554                   | $< 0.0232$                | ...               | 2                       | 64.5                | -0.55                        | -20.76          | 0.71                | -0.51                         | -22.57          | 0.78                | 1.81          |
| 1548+092   | J155103.39+090849.25 | 0.7703                  | 0.770643                | $0.229 \pm 0.018$         | $1.117 \pm 0.129$ | 14                      | 40.5                | -0.34                        | -19.46          | 0.17                | -0.83                         | -20.14          | 0.07                | 0.68          |
| 1548+092   | J155103.39+090849.25 | 0.803                   | 0.803                   | $< 0.0202$                | ...               | 2                       | 120.9               | -0.11                        | -22.81          | 3.52                | -0.67                         | -23.99          | 2.60                | 1.17          |

Table 3—Continued

| (1)<br>QSO | (2)<br>J-Name        | (3)<br>$z_{\text{gal}}$ | Mg II Absorption        |                           |                   |                         | B-band              |                              |                 |                     | K-band                        |                 |                     |               |
|------------|----------------------|-------------------------|-------------------------|---------------------------|-------------------|-------------------------|---------------------|------------------------------|-----------------|---------------------|-------------------------------|-----------------|---------------------|---------------|
|            |                      |                         | (4)<br>$z_{\text{abs}}$ | (5)<br>$W_r(2796)$<br>(Å) | (6)<br>$DR$       | (7)<br>Ref <sup>a</sup> | (8)<br>$D$<br>(kpc) | (9)<br>$K_{By}$ <sup>b</sup> | (10)<br>$M_B^c$ | (11)<br>$L_B/L_B^*$ | (12)<br>$K_{Ky}$ <sup>d</sup> | (13)<br>$M_K^c$ | (14)<br>$L_K/L_K^*$ | (15)<br>$B-K$ |
| SDSS       | J155336.46+053423.97 | 0.3227                  | 0.324                   | $0.71 \pm 0.01$           | ...               | 6                       | 70.3                | 0.61                         | -21.34          | 1.57                | 0.25                          | -22.64          | 0.94                | 1.30          |
| 1555+362   | J155504.39+362847.9  | 0.189200                | 0.189182                | $0.124 \pm 0.020$         | $1.312 \pm 0.338$ | 15                      | 33.4                | -0.83                        | -20.49          | 0.84                | ...                           | ...             | ...                 | 1.20          |
| SDSS       | J155557.07-003608.41 | 0.3006                  | 0.3006                  | $< 0.06$                  | ...               | 6                       | 47.7                | 0.17                         | -19.32          | 0.25                | -0.11                         | -19.75          | 0.06                | 0.42          |
| SDSS       | J160726.77+471251.37 | 0.4980                  | 0.498                   | $1.20 \pm 0.2$            | ...               | 11                      | 188.6               | 1.12                         | -21.30          | 1.24                | 0.50                          | -22.72          | 0.92                | 1.41          |
| SDSS       | J160749.34-002219.86 | 0.3985                  | 0.3993                  | $0.80 \pm 0.01$           | ...               | 6                       | 48.8                | 0.86                         | -21.19          | 1.25                | 0.32                          | -22.74          | 0.98                | 1.55          |
| SDSS       | J160905.42+071337.29 | 0.2075                  | 0.2075                  | $< 0.12$                  | ...               | 6                       | 52.2                | 0.25                         | -20.20          | 0.63                | 0.17                          | -22.04          | 0.58                | 1.83          |
| SDSS       | J161714.12+243255.63 | 0.5703                  | 0.5703                  | $1.50 \pm 0.3$            | ...               | 11                      | 46.7                | 1.95                         | -22.49          | 3.41                | 1.49                          | -24.87          | 6.43                | 2.37          |
| SDSS       | J161940.56+254323.0  | 0.12438                 | 0.12501                 | $0.32 \pm 0.03$           | $1.120 \pm 0.18$  | 10                      | 43.0                | -0.95                        | -20.72          | 1.11                | -0.23                         | -22.81          | 1.27                | 2.08          |
| 1622+238   | J162439.08+234512.20 | 0.261                   | 0.261                   | $< 0.0147$                | ...               | 2                       | 125.0               | -1.43                        | -17.99          | 0.08                | -0.48                         | -21.02          | 0.22                | 3.03          |
| 1622+238   | J162439.08+234512.20 | 0.2800                  | 0.280                   | $< 0.0129$                | ...               | 14                      | 140.3               | -0.72                        | -17.16          | 0.04                | -0.51                         | -18.70          | 0.02                | 1.53          |
| 1622+238   | J162439.08+234512.20 | 0.3181                  | 0.317597                | $0.491 \pm 0.010$         | $1.230 \pm 0.044$ | 3                       | 54.4                | -1.36                        | -19.83          | 0.39                | -0.53                         | -22.68          | 0.97                | 2.85          |
| 1622+238   | J162439.08+234512.20 | 0.4720                  | 0.471930                | $0.769 \pm 0.006$         | $1.187 \pm 0.016$ | 3                       | 34.0                | -0.93                        | -19.00          | 0.15                | -0.57                         | -19.93          | 0.07                | 0.92          |
| 1622+238   | J162439.08+234512.20 | 0.565                   | 0.565                   | $< 0.024$                 | ...               | 2                       | 61.7                | -0.86                        | -18.39          | 0.08                | -0.71                         | -18.76          | 0.02                | 0.37          |
| 1622+238   | J162439.08+234512.20 | 0.635                   | 0.635                   | $< 0.024$                 | ...               | 2                       | 64.0                | -0.83                        | -18.36          | 0.07                | -0.74                         | -18.40          | 0.01                | 0.03          |
| 1622+238   | J162439.08+234512.20 | 0.6560                  | 0.656106                | $1.446 \pm 0.006$         | $1.098 \pm 0.007$ | 3                       | 99.3                | -0.75                        | -19.76          | 0.25                | -0.64                         | -20.69          | 0.13                | 0.93          |
| 1622+238   | J162439.08+234512.20 | 0.7016                  | 0.702902                | $0.032 \pm 0.003$         | $1.607 \pm 0.27$  | 3                       | 112.3               | -0.65                        | -20.97          | 0.72                | -0.64                         | -22.59          | 0.74                | 1.61          |
| 1622+238   | J162439.08+234512.20 | 0.7975                  | 0.797078                | $0.468 \pm 0.008$         | $1.617 \pm 0.049$ | 3                       | 71.3                | -0.47                        | -20.74          | 0.53                | -0.67                         | -22.40          | 0.60                | 1.66          |
| 1622+238   | J162439.08+234512.20 | 0.8280                  | 0.828                   | $< 0.0055$                | ...               | 14                      | 139.3               | 0.30                         | -19.69          | 0.19                | -0.62                         | -21.83          | 0.35                | 2.14          |
| 1622+238   | J162439.08+234512.20 | 0.8909                  | 0.891276                | $1.548 \pm 0.004$         | $1.093 \pm 0.005$ | 3                       | 23.2                | -0.61                        | -20.63          | 0.43                | -0.91                         | -21.05          | 0.16                | 0.41          |
| 1704+710   | J170426.08+705734.7  | 0.7123                  | 0.7123                  | $1.49 \pm 0.05$           | ...               | 7                       | 22.1                | -0.21                        | -19.56          | 0.20                | -0.64                         | -20.92          | 0.16                | 1.35          |
| 2000-330   | J200324.11-325145.13 | 0.791                   | 0.791669                | $1.165 \pm 0.002$         | $1.159 \pm 0.003$ | 14                      | 49.8                | -0.19                        | -21.77          | 1.38                | ...                           | ...             | ...                 | ...           |
| SDSS       | J204303.55-010126.05 | 0.1329                  | 0.1329                  | $< 0.29$                  | ...               | 6                       | 39.6                | 0.05                         | -18.59          | 0.15                | 0.13                          | -20.09          | 0.10                | 1.49          |
| SDSS       | J204303.55-010126.05 | 0.2356                  | 0.235                   | $1.24 \pm 0.05$           | ...               | 6                       | 48.6                | 0.09                         | -20.96          | 1.21                | -0.09                         | -21.57          | 0.37                | 0.61          |
| SDSS       | J210230.72+094125.08 | 0.3565                  | 0.3563                  | $0.71 \pm 0.04$           | ...               | 6                       | 22.5                | 0.73                         | -19.82          | 0.37                | 0.28                          | -21.02          | 0.20                | 1.20          |
| SDSS       | J211626.32-062437.44 | 0.5237                  | 0.5237                  | $0.50 \pm 0.1$            | ...               | 11                      | 142.5               | 1.77                         | -21.88          | 2.06                | 1.29                          | -23.94          | 2.80                | 2.05          |
| SDSS       | J212938.59-063801.85 | 0.2782                  | 0.2779                  | $0.58 \pm 0.03$           | ...               | 6                       | 27.5                | 0.46                         | -18.94          | 0.18                | 0.21                          | -20.63          | 0.15                | 1.69          |
| 2145+067   | J214805.45+065738.60 | 0.790                   | 0.790866                | $0.547 \pm 0.005$         | $1.520 \pm 0.02$  | 13                      | 40.8                | -0.19                        | -20.87          | 0.60                | -0.67                         | -22.27          | 0.53                | 1.39          |

Table 3—Continued

| (1)<br>QSO | (2)<br>J-Name        | Mg II Absorption        |                         |                                 |               |                         | B-band              |                               |                 | K-band              |                                |                 |                     |               |
|------------|----------------------|-------------------------|-------------------------|---------------------------------|---------------|-------------------------|---------------------|-------------------------------|-----------------|---------------------|--------------------------------|-----------------|---------------------|---------------|
|            |                      | (3)<br>$z_{\text{gal}}$ | (4)<br>$z_{\text{abs}}$ | (5)<br>$W_{\tau}$ (2796)<br>(Å) | (6)<br>$DR$   | (7)<br>Ref <sup>a</sup> | (8)<br>$D$<br>(kpc) | (9)<br>$K_{B,y}$ <sup>b</sup> | (10)<br>$M_B^c$ | (11)<br>$L_B/L_B^*$ | (12)<br>$K_{K,y}$ <sup>d</sup> | (13)<br>$M_K^c$ | (14)<br>$L_K/L_K^*$ | (15)<br>$B-K$ |
| 2206-199   | J220852.07-194359.0  | 0.752                   | 0.751923                | 0.890 ± 0.002                   | 1.10 ± 0.09   | 13                      | 11.7                | -0.13                         | -20.41          | 0.41                | ...                            | ...             | ...                 |               |
| 2206-199   | J220852.07-194359.0  | 0.948                   | 0.948361                | 0.249 ± 0.002                   | 1.331 ± 0.015 | 3                       | 86.9                | -0.56                         | -21.56          | 0.95                | -0.07                          | -22.31          | 0.52                | 0.74          |
| 2206-199   | J220852.07-194359.0  | 1.01655                 | 1.017038                | 1.047 ± 0.003                   | 1.143 ± 0.005 | 3                       | 104.4               | -0.50                         | -22.74          | 2.59                | -0.07                          | -23.37          | 1.37                | 0.63          |
| SDSS       | J221126.76+124458.16 | 0.4872                  | 0.484                   | 0.40 ± 0.02                     | ...           | 6                       | 31.3                | 1.65                          | -21.51          | 1.53                | 1.13                           | -24.05          | 3.15                | 2.53          |
| SDSS       | J221526.74+011356.47 | 0.1952                  | 0.1952                  | < 0.23                          | ...           | 6                       | 30.9                | 0.04                          | -17.88          | 0.07                | -0.07                          | -18.72          | 0.02                | 0.84          |
| SDSS       | J221526.74+011356.47 | 0.3203                  | 0.3201                  | 0.40 ± 0.05                     | ...           | 6                       | 50.5                | 0.45                          | -20.22          | 0.56                | 0.09                           | -21.38          | 0.29                | 1.15          |
| SDSS       | J223246.80+134702.04 | 0.3221                  | 0.3225                  | 0.92 ± 0.05                     | ...           | 6                       | 39.2                | 0.61                          | -21.34          | 1.56                | 0.25                           | -22.67          | 0.96                | 1.33          |
| SDSS       | J223316.87+133309.90 | 0.2138                  | 0.2139                  | 1.36 ± 0.06                     | ...           | 6                       | 32.3                | 0.20                          | -20.50          | 0.82                | 0.06                           | -21.61          | 0.39                | 1.10          |
| SDSS       | J223359.93-003315.79 | 0.1162                  | 0.1162                  | 1.11 ± 0.09                     | ...           | 6                       | 12.1                | 0.01                          | -17.98          | 0.09                | 0.12                           | -19.48          | 0.06                | 1.50          |
| 2231-002   | J223408.99+000001.69 | 0.8549                  | 0.855069                | 0.784 ± 0.004                   | 1.310 ± 0.02  | 13                      | 23.6                | 0.13                          | -20.01          | 0.25                | ...                            | ...             | ...                 | ...           |
| SDSS       | J224704.78-081617.54 | 0.4270                  | 0.427                   | < 0.06                          | ...           | 6                       | 111.7               | 0.94                          | -21.56          | 1.71                | 0.36                           | -22.88          | 1.11                | 1.32          |
| SDSS       | J225036.72+000759.49 | 0.14826                 | 0.14837                 | 1.08 ± 0.07                     | 0.970 ± 0.09  | 10                      | 52.4                | -0.92                         | -20.82          | 1.18                | -0.29                          | -23.78          | 3.04                | 2.95          |
| SDSS       | J230225.49-082154.12 | 0.3618                  | 0.362                   | 2.02 ± 0.06                     | ...           | 6                       | 34.4                | 1.28                          | -20.81          | 0.92                | 0.64                           | -22.48          | 0.79                | 1.66          |
| SDSS       | J230845.60-091449.45 | 0.2147                  | 0.2139                  | 0.43 ± 0.07                     | ...           | 6                       | 12.7                | 0.60                          | -19.32          | 0.27                | 0.36                           | -21.53          | 0.36                | 2.21          |
| SDSS       | J232735.98+153309.57 | 0.4756                  | 0.4756                  | < 0.30                          | ...           | 11                      | 161.7               | 1.07                          | -20.52          | 0.62                | 0.45                           | -22.18          | 0.56                | 1.66          |
| SDSS       | J232925.18-100722.43 | 0.4606                  | 0.4606                  | < 0.30                          | ...           | 11                      | 98.1                | 1.56                          | -21.44          | 1.47                | 1.00                           | -23.58          | 2.06                | 2.14          |
| 2342+089   | J234433.00+091039.4  | 0.7233                  | 0.7233                  | 1.48 ± 0.05                     | 1.44 ± 0.09   | 7                       | 34.5                | -0.24                         | -22.23          | 2.26                | -0.67                          | -23.51          | 1.73                | 1.28          |
| 2343+125   | J234628.21+124859.9  | 0.7148                  | 0.7148                  | < 0.0051                        | ...           | 14                      | 84.4                | -0.26                         | -21.24          | 0.92                | -0.67                          | -22.50          | 0.68                | 1.25          |
| 2343+125   | J234628.21+124859.9  | 0.7313                  | 0.731219                | 1.655 ± 0.006                   | 1.190 ± 0.01  | 13                      | 32.5                | -0.23                         | -19.23          | 0.14                | -0.68                          | -20.46          | 0.10                | 1.22          |
| SDSS       | J234949.61+003535.39 | 0.2778                  | 0.2776                  | 0.35 ± 0.02                     | ...           | 6                       | 31.8                | 0.46                          | -19.51          | 0.31                | 0.21                           | -21.43          | 0.31                | 1.91          |

<sup>a</sup>Mg II Absorption Measurements: (1) Guillemin & Bergeron (1997), (2) Churchill et al. (2013a), (3) Kacprzak et al. (2011b), (4) Steidel et al. (1997), (5) Chen & Tinker (2008), (6) Chen et al. (2010a), (7) Steidel, Dickinson, & Persson (1994), (8) Steidel (personal communication), (9) Kacprzak, Murphy, & Churchill (2010), (10) Kacprzak et al. (2011a), (11) Gauthier & Chen (2011), (12) Barton & Cooke (2009), (13) Evans (2011), and (14) This work.

<sup>b</sup> $K$ -correction used to obtain  $M_B$  from column (8) in Table 1 - Observed Galaxy Properties.

<sup>c</sup>Absolute magnitudes are AB magnitudes.

<sup>d</sup> $K$ -correction used to obtain  $M_K$  from column (11) in Table 1 - Observed Galaxy Properties.