

# 日立照明器具 照明特性

|                 |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
|-----------------|----------------------------|-------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|-----|------|------|---|-----|-----|-----|--|--|----|-----|-----|-----|--|--|----|-----|-----|-----|--|--|----|-----|-----|-----|--|--|----|-----|-----|-----|--|--|----|-----|-----|-----|--|--|----|-----|-----|-----|--|--|----|-----|----|-----|--|--|----|----|----|----|--|--|----|----|---|----|--|--|-----|----|---|----|--|--|-----|----|---|---|--|--|-----|---|---|---|--|--|-----|--|--|--|--|--|-----|--|--|--|--|--|-----|--|--|--|--|--|-----|--|--|--|--|--|-----|--|--|--|--|--|-----|--|--|--|--|--|
| 交換形LED逆富士       |                            | 反<br>射<br>率 | 天井   | 80%  |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 0%   |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 名称: 形<br>CP付    |                            |             | 壁  | 70%  | 50%  | 30%  | 70%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0%  |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 形式: NC4A1CP     |                            |             | 床  | 10%  |      |      |      |      |      |      |      |      |      |      |      |      | 0%  |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
|                 |                            | 室指数         | 固有照明率 S/H=1.0  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| <備考>            |                            | 0.6         | 0.57   | 0.45 | 0.37 | 0.55 | 0.44 | 0.36 | 0.31 | 0.42 | 0.36 | 0.31 | 0.41 | 0.35 | 0.31 | 0.28 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
|                 |                            | 0.8         | 0.66   | 0.54 | 0.46 | 0.64 | 0.53 | 0.46 | 0.40 | 0.52 | 0.45 | 0.40 | 0.50 | 0.44 | 0.39 | 0.37 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 姿図<br>          |                            | 1           | 0.72   | 0.61 | 0.53 | 0.70 | 0.60 | 0.53 | 0.47 | 0.58 | 0.52 | 0.47 | 0.56 | 0.51 | 0.46 | 0.43 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
|                 |                            | 1.25        | 0.78   | 0.68 | 0.61 | 0.76 | 0.67 | 0.60 | 0.54 | 0.65 | 0.58 | 0.53 | 0.63 | 0.57 | 0.53 | 0.50 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
|                 |                            | 1.5         | 0.82   | 0.73 | 0.66 | 0.81 | 0.72 | 0.65 | 0.60 | 0.70 | 0.64 | 0.59 | 0.67 | 0.62 | 0.58 | 0.55 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
|                 |                            | 2           | 0.88   | 0.80 | 0.74 | 0.86 | 0.79 | 0.73 | 0.68 | 0.76 | 0.71 | 0.67 | 0.74 | 0.70 | 0.66 | 0.63 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
|                 |                            | 2.5         | 0.92   | 0.85 | 0.79 | 0.90 | 0.83 | 0.78 | 0.74 | 0.81 | 0.76 | 0.72 | 0.78 | 0.74 | 0.71 | 0.68 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
|                 |                            | 3           | 0.94   | 0.88 | 0.83 | 0.92 | 0.86 | 0.82 | 0.78 | 0.84 | 0.80 | 0.76 | 0.81 | 0.77 | 0.74 | 0.71 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 光源形式            |                            | 4           | 0.97   | 0.92 | 0.88 | 0.95 | 0.91 | 0.87 | 0.83 | 0.88 | 0.84 | 0.81 | 0.85 | 0.82 | 0.80 | 0.76 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| CE407DE-C14A    |                            | 5           | 0.99   | 0.95 | 0.91 | 0.97 | 0.94 | 0.90 | 0.87 | 0.91 | 0.88 | 0.85 | 0.88 | 0.85 | 0.83 | 0.80 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 器具光束            |                            | 7           | 1.02   | 0.99 | 0.96 | 1.00 | 0.97 | 0.95 | 0.92 | 0.94 | 0.92 | 0.90 | 0.91 | 0.90 | 0.88 | 0.84 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 6,660 lm        |                            | 10          | 1.04   | 1.02 | 1.00 | 1.02 | 1.00 | 0.98 | 0.96 | 0.97 | 0.95 | 0.94 | 0.94 | 0.93 | 0.92 | 0.88 |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 器具効率 Ft= 100%   |                            |             | <div>単体照度分布(初期値)</div> <div>0-200<br/>200-400<br/>400-600<br/>600-800<br/>800-1000</div>   |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 上方光束 Fu= 3.5%   |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 下方光束 Fd= 96.5%  |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
|                 |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 最大取付間隔          |                            |             | <div>配光曲線<br/>(cd/1000 lm)</div> <div>A<br/>B<br/>C-C'</div>   |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| A-A 1.28 H      |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| B-B 1.26 H      |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 保守率             | 良 0.88<br>中 0.86<br>否 0.81 |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 光度 (cd/1000 lm) |                            |             | <table><tr><td></td><td>A-0</td><td>B-B</td><td>C-0</td><td>A'-0</td><td>C'-0</td></tr><tr><td>0</td><td>318</td><td>318</td><td>318</td><td></td><td></td></tr><tr><td>10</td><td>312</td><td>313</td><td>313</td><td></td><td></td></tr><tr><td>20</td><td>296</td><td>295</td><td>296</td><td></td><td></td></tr><tr><td>30</td><td>271</td><td>268</td><td>268</td><td></td><td></td></tr><tr><td>40</td><td>239</td><td>232</td><td>235</td><td></td><td></td></tr><tr><td>50</td><td>197</td><td>189</td><td>191</td><td></td><td></td></tr><tr><td>60</td><td>154</td><td>136</td><td>148</td><td></td><td></td></tr><tr><td>70</td><td>110</td><td>89</td><td>102</td><td></td><td></td></tr><tr><td>80</td><td>69</td><td>35</td><td>54</td><td></td><td></td></tr><tr><td>90</td><td>41</td><td>5</td><td>25</td><td></td><td></td></tr><tr><td>100</td><td>21</td><td>5</td><td>12</td><td></td><td></td></tr><tr><td>110</td><td>13</td><td>3</td><td>6</td><td></td><td></td></tr><tr><td>120</td><td>5</td><td>2</td><td>1</td><td></td><td></td></tr><tr><td>130</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>140</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>150</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>160</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>170</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>180</td><td></td><td></td><td></td><td></td><td></td></tr></table> |      |      |      |      |      |      |      |      |      |      |      |      |      |     | A-0  | B-B  | C-0 | A'-0 | C'-0 | 0 | 318 | 318 | 318 |  |  | 10 | 312 | 313 | 313 |  |  | 20 | 296 | 295 | 296 |  |  | 30 | 271 | 268 | 268 |  |  | 40 | 239 | 232 | 235 |  |  | 50 | 197 | 189 | 191 |  |  | 60 | 154 | 136 | 148 |  |  | 70 | 110 | 89 | 102 |  |  | 80 | 69 | 35 | 54 |  |  | 90 | 41 | 5 | 25 |  |  | 100 | 21 | 5 | 12 |  |  | 110 | 13 | 3 | 6 |  |  | 120 | 5 | 2 | 1 |  |  | 130 |  |  |  |  |  | 140 |  |  |  |  |  | 150 |  |  |  |  |  | 160 |  |  |  |  |  | 170 |  |  |  |  |  | 180 |  |  |  |  |  |
|                 | A-0                        | B-B         |  |      |      |      |      |      |      |      |      |      |      |      |      |      | C-0 | A'-0 | C'-0 |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 0               | 318                        | 318         |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 318 |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 10              | 312                        | 313         |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 313 |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 20              | 296                        | 295         |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 296 |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 30              | 271                        | 268         |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 268 |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 40              | 239                        | 232         |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 235 |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 50              | 197                        | 189         |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 191 |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 60              | 154                        | 136         |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 148 |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 70              | 110                        | 89          |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 102 |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 80              | 69                         | 35          |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 54  |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 90              | 41                         | 5           |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 25  |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 100             | 21                         | 5           |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 12  |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 110             | 13                         | 3           |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 6   |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 120             | 5                          | 2           |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 1   |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 130             |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 140             |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 150             |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 160             |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 170             |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |
| 180             |                            |             |  |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |   |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |     |     |  |  |    |     |    |     |  |  |    |    |    |    |  |  |    |    |   |    |  |  |     |    |   |    |  |  |     |    |   |   |  |  |     |   |   |   |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |     |  |  |  |  |  |